

xylem



Laboratory and Quality Control Instruments

XYLEM LAB SOLUTIONS CATALOG

2019-2020

Innovative Solutions for Challenging Problems

Xylem is a vibrant and innovative water technology company with a singular focus on helping to solve the world's most pressing water challenges. Our success is grounded in more than 100 years of water technology leadership and a proud heritage as a former part of ITT Corporation.

Xylem's well-known global brands have served the water market for many decades with products sold in more than 150 countries. We listen, learn and adapt to local environments, working in true partnership with our customers.

Content

Company Introduction	2
Application Table	3 - 4
Featured Products	5 - 6
Dissolved Oxygen/Biochemical Oxygen Demand	7 - 10
pH / ORP / ISE / EC	11 - 14
Multi parameter / Turbidity	15 - 16
Photometry.....	17 - 18
Spectrophotometry	19 - 20
Piston Burette / Titration	21 - 24
Karl Fisher Titration / Sampler	25 - 26
Kinematic Viscosity	27 - 28
Handheld Refractometer	29 - 30
Benchtop Refractometer.....	31 - 32
Polarimeter.....	33 - 34
Biochemistry	35 - 36
Temperature / Humidity / Pressure Loggers	37 - 40
Cold Chain Temp Loggers	41 - 42
Oil / Salinity / Temperature.....	43 - 44
TOC / Automated Chemistry Analyzer	45 - 46
Hotplate / Stirrer Accessories	47 - 48
Xylem Brands	49 - 50

Welcome to Xylem Inc.

Company Overview

Xylem Analytics is a leading manufacturer of field, portable, online and laboratory analytical instrumentation. Xylem's analytical involvement spans right across the laboratory platform, from potable water analysis, through food, beverage, chemical, petrochemical, industrial, pharmaceutical and life science to effluent monitoring and control. Quality control, food safety and efficient processing are paramount at every stage of the industrial manufacturing cycle.

Measured Support for Proven Brands

Xylem Analytics' products are sold under a range of globally recognized brands. By bringing them into Xylem, the company provides increased focus on the brands and long-term support that customers can rely on. A complete portfolio enables Xylem Analytics to address its customers' operating and monitoring needs.

Global Support for Proven Brands

Our expertise stretches throughout the cycle of these specific industries, right across the globe. Our products are supplied through a carefully selected and fully trained network of distributors managed by regional offices to ensure customer satisfaction at every point before, during and after a product or service has been supplied. Quality of service and sustainability is paramount, no matter how large or small the requirement. From a simple hand held meter to a fully integrated process system, our aim is to serve the customer as best we can, this time, the next time and every time. To learn more about all of Xylem's brands, visit any of the websites below:

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Application Table

Total Solutions to Address Our Customers' Application Needs

Sold under a range of globally recognized brands, we offer a complete line of monitoring, measuring and analytical instrumentation for use in the field, in the laboratory and online, including meters, electrodes, titrators, spectrophotometers, colorimeters, polarimeters, viscometers, refractometers, temperature equipment and data loggers.

With extensive experience in supplying total solutions for regulated environments, our quality analytical solutions help our customers comply with confidence. Additionally, Xylem offers a complete portfolio of analytical products to address our customers' operating and monitoring needs.

Optical Analysis	
Refractometer	P. 30
Polarimeter	P. 34
Spectrophotometer	P. 20
Photometer	P. 18
Dissolved Oxygen	P. 8
Turbidity	P. 16
Chemical Analysis	
Titration	P. 22
Karl Fisher	P. 26
pH Sensor	P. 12
Conductivity Sensor	P. 12
Biochemistry	P. 36
TOC Meter	P. 46
Physical Measurement	
Precision Thermometer	P. 42
Temp Datalogger	P. 38
Humidity Datalogger	P. 38
Pressure Datalogger	P. 38
Oil Quality	P. 44
Viscosity Meter	P. 28



Water



Livestock & Aquaculture



Fruit & Vegetables



Flavors & Essences



Sugar



Edible Oils



Pure Water



Soft Drinks



Wine & Beer



Canning



Dairy





	Raw Materials						Process and Packing							Cold Chain		Retail and Catering		Waste Water					
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
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Meat & Fish



Bakery



Confectionery



HACCP



Distribution



Warehousing



Retail



Catering



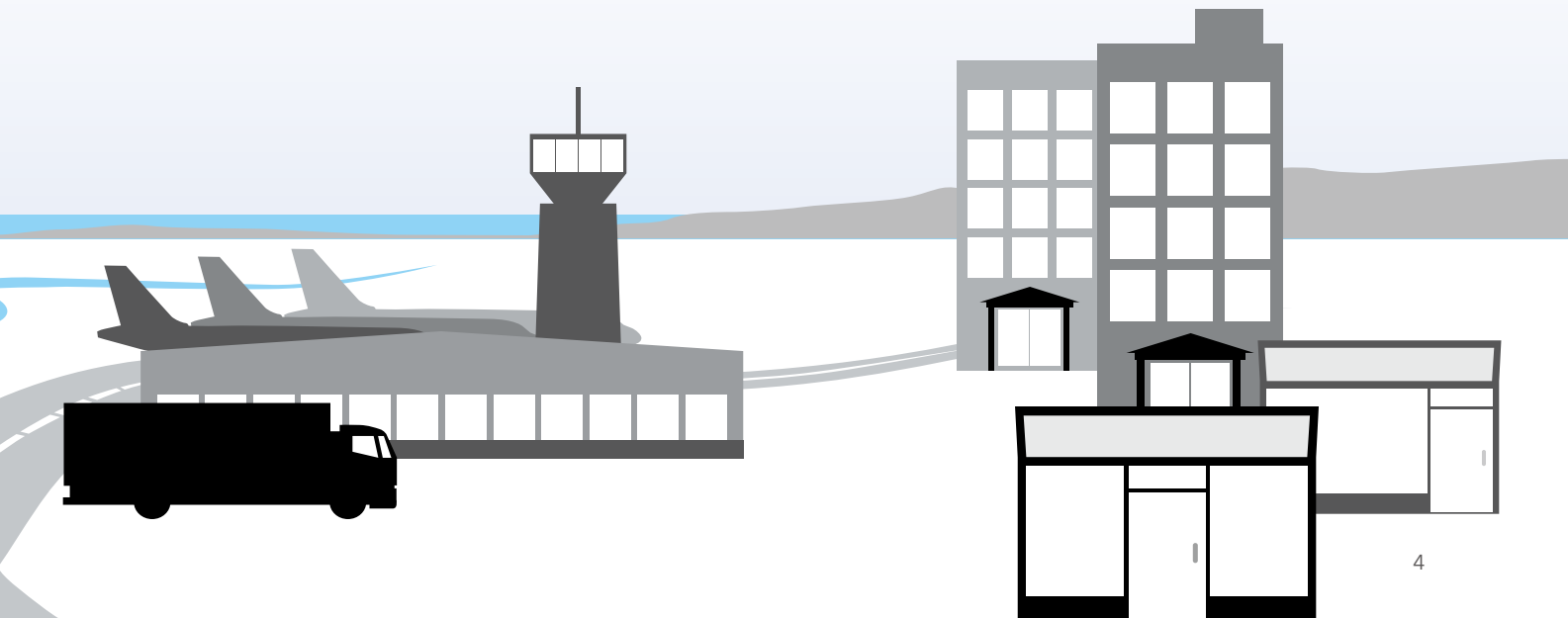
Waste Water



Online Capability



Auto Sampling



Featured Products

Wireless Sensor with Multi Channel Meters MultiLine® & inoLab®

- pH, ORP, dissolved oxygen, turbidity parameters meters - Handhelds and Benchtop available
- Galvanic isolation sensors stores reliable signals
- Calibration records and additional information are stored in the sensor
- Smart sensor - self evaluation



MultiLine® & inoLab®

Titration with Two Measuring Inputs - Multi-functional TitroLine 7800

- Compatible with IDS digital sensors
- High accuracy with temperature compensated pH electrodes
- Titration & Karl-Fisher switchable
- Conductivity sensor connectable
- Two parameters display



IDS electrodes

Titroline 7800

Latest Benchtop Refractometers - New Interface for Selections

- Flat sapphire prism surface for easy-cleaning
- 0.01 °Brix accuracy up to 30 Brix (RFM300)
- High precision Peltier temperature controlled (RFM300)
- CFR 21 part 11 compliance with RFID (RFM300)



RFM 300-M

RFM 300-T

RFM 700-M

Data Logger Series - ebro EBI 12

- Equipment for process validation in steam sterilizer, H₂O₂, formaldehyde and EtO sterilizer, washer-disinfectors and washer-disinfectors for endoscopes
- Data Logger to measure temperature, pressure, fine vacuum, humidity and conductance
- TÜV certified



EBI 12
Data Logger Series

OxiTop for BOD Measurement

- Easy evaluation of the quality (TPM%) of frying oil
- Big display with signal lamp auto-evaluating function
- Temperature 50 °C and above can be measured



WTW OxiTop

Refrigerator Thermometer - TRACEbro 3x0 / 4x0

- Min/Max Thermometer with one or two external probes.
- Simultaneous display of current measured value and Min / Max.
- Monitoring of 2 temperature zones
- Channel one for checking refrigerator temperature
- Channel two for checking freezer temperature



Ebro TRACEbro

Glucose/Lactate Biochemistry Analyzer - YSI 2500

- Cost effective alternative to the 2900D for glucose and lactate measurement
- No special sample preparation required.
- Automation and small footprint for laboratory
- Ideal for simple fermentation process monitoring (Research, Pilot development)
- Analyte-specific results in 60 seconds or less
- Unique fluidics resist clogging
- Automated sample handling



YSI 2500

Proven Technique for TOC - Aurora 1080

- Covers the range from ultrapure water (PW, WFI) to rinsed/clean water in cleaning validation.
- Compliance with FDA - 21 CFR Part 11 and IQ/OQ/PQ documentation for GLP/GMP in pharmaceutical
- Auto-sampler for 88 samples

Aurora 1080
Rotary TOC Autosampler



Dissolved Oxygen DO Measurements

Every species on our planet depends on water and oxygen. For aquatic species, adequate dissolved oxygen is of prime importance to their continued survival. Since dissolved oxygen levels are directly related to good water quality, the two are highly interdependent. Many factors can affect DO levels, and an understanding of these levels in order to make informed decisions concerning wastewater treatment operations, hypoxic zones, aquaculture facilities or large-scale ecosystems is essential.

Benchtop DO Meter inoLab Oxi 7310



inoLab Oxi 7310



inoLab Oxi 7310P
Built-in printer

The inoLab® Oxi 7310 is the perfect benchtop meter with secure and convenient menu-controlled operation via a graphic display for the measurement of dissolved oxygen with the proven, galvanic oxygen sensors, the universal CelloX® 325, the self-stirring StirrOx® G for BOD measurements and DurOx® 325 for training purposes. With automatic documentation according to GLP/ AQA, it supports the traceability - not only in the environmental lab. For this, the serial number of the sensor can be saved. On request also available with an optional built-in printer.

Measurement range

DO Con	: 0.00-20.00 mg/L; 0.0-90.0 mg/L
Saturation	: 0.0-200.0 %; 0-600 %
Pressure	: 0.0-200.0 hPa; 0-1,250 mbar
Temperature	: -5.0 to 105 °C ± 0.1 °C

Accuracy

DO Con	: Meas value ± 0.5 %
Saturation	: Meas value ± 0.5 %
Temperature	: ± 0.1 °C

Temperature compensation

Auto Compensation (0 to 40 °C)

Weight & dimensions

240(W) x 190(D) x 80(H) mm
800g (phosphorus N/A)

Wireless Optical IDS Dissolved Oxygen Sensors FDO® 925-P



The FDO® 925 is especially suited for lab and process thanks to its compact size. The flow-free, easy to clean beveled membrane allows it to be used in containers with low sample volumes. Also, low oxygen concentrations below 1 mg/l can be shown exactly.

WTW's proven FDO® 925 is now available as sustainable plug head version. The universal plug head fits the sensor with wireless functionality - disturbing cables are no longer required. Furthermore it can be connected to AS/IDS-x cables with lengths of up to 100 m. With this new technology WTW significantly expands the range of applications and the measuring comfort of its optical dissolved oxygen sensors.

Measurement range

Concentration	: 0.00...20.00 mg/l ± 0.5 % of value
Saturation	: 0.0 ... 200.0 % ± 0.5 % of value
Partial pressure	: 0.0 to 400 hPa ± 0.5 % of value
Temperature	: 0 ... 50.0 °C ± 0.2 °C



Multi-parameter Portable Meter HandyLab 680

SI Analytics



The HandyLab 680 compact portable multi-parameter instrument with digital IDS pH/ORP Electrodes, dissolved oxygen sensors, conductivity cells. Calibration records and additional information are stored in the sensor. Well laid-out menus make the operation safe and easy. Robust with IP 67 waterproof design. Operate with user administration and traceable results. Sharp Color Display. Data management via USB transfer to PC with bundled software/export data as pdf or CSV to USB flash drive. pH calibration from 1 to 5 point and auto recognize 22 buffer sets.. Delivery includes importer software for data acquisition via Excel®.

Measurement range

DO Con : 0.00 to 20.00mg/l ± 5%
 Saturation : 0.0 to 200.0 % ± 0.5%
 Pressure : 0.0 to 200 hPa
 Temperature : -5.0 to 105°C ± 0.2°C

Power supply

1.5V 4x AA batteries
 1.2V NiMH rechargeable battery four (optional)

Weight & dimensions

80(W) × 180(D) × 55(H) mm
 400g

Electrode dimensions

Ø15.3 × 150(L) mm

Oxygen Portable Meter ProfiLine Oxi 3000 Series



Dissolved oxygen measurement - really simple: The Oxi 3000 series are an easy to use, robust and waterproof portable meter for the measurement of dissolved oxygen, i.e. in surface waters, in wastewater treatment plants and in fish farming applications. It is suitable for galvanic oxygen sensors of the CellOx® and DurOx® series; the adjustable salinity compensates for the salt content when measuring sea water and allows correct measured values. The results can be displayed either as saturation or concentration.

Measurement range

DO Con : 0.00 to 20.00 mg/L ± 5%,
 0-90 mg/L ± 5%
 Saturation : 0.0 to 200%; 0 to 600 %
 Temperature : -5.0 to 105.0 °C ± 0.1 %

Power supply

Oxi 3205 : N/A
 Oxi 3310 : 200 points (Manual)
 / 500 points (Auto)

Weight & dimensions

80(W) × 180(D) × 55(H) mm
 400g

DO Electrodes



inoLab, ProfiLine series DO electrode specifications

Model	CellOx 325 (Membrane)	DurOX (Membrane)	StirrOx G (Membrane)	FDO 925* (Optical)
Use	General (Spot sampling)	General (Spot sampling)	BOD measurement	General (Spot sampling)
Measurement range	0~50 mg/L	0~50 mg/L	0~50 mg/L	0.00~20.00 mg/L
Features	DO, Saturation, Pressure	Low flow rate (2.5~5 cm/sec)	BOD Built-in stirrer	No calibration No stirring needed

Portable Dissolved Oxygen Meter AM40 Meter



The meter combines the features for mobile application in the field with the precision and comfort of a laboratory meter with plain text structure menu, integrated data logging system and a rugged watertight IP 65 housing. The meter is the ideal choice for determination of the oxygen content in surface water, sewage and for application in wastewater treatment. The meter in connection with the sensor indicating the mass concentration of dissolved oxygen in aqueous solutions in mg/l and the oxygen saturation index (%-saturation).

Measurement range

DO Con : 0 to 20 mg/l
 Saturation : 0 to 200 %
 Temperature : -10 to 100 °C

Power supply

3x AA, IEC R6, LR6, 1.5 V

Weight & dimensions

200(W) × 95(H) × 40(D) mm
 290 g incl. batteries

DO & BOD
 pH · ORP · iSE
 MULTI · EC
 Photometry
 Piston Burette
 Titration
 Viscosity
 Refractometer
 Polarimeter
 Temp · Humid · Press
 Oil · Salinity
 TOC · ACA
 Hotplate · Stirrer



The inoLab® Oxi 7310 is the perfect benchtop meter with secure and convenient menu-controlled operation via a graphic display for the measurement of dissolved oxygen with the proven, galvanic oxygen sensors, the universal CelloX® 325, the self-stirring StirrOx® G for BOD measurements and DurOx® 325 for training purposes. With automatic documentation according to GLP/AQA, it supports the traceability - not only in the environmental lab. For this, the serial number of the sensor can be saved. On request also available with an optional built-in printer.

Multiparameter Benchtop Meter inoLab Multi 9000 Series



WTW's benchtop meters can safely determine and reliably document the biochemical oxygen demand (BSB). For this, a series of dilutions is prepared depending on the BSB, where the start and end values as well as the value of the dilution water are determined with WTW meters and sensors. With the conventional benchtop meters type inoLab® Oxi 7310 you can measure with the self-stirring StirrOx® G or with the CelloX® 325 and the stirring attachment RZ 300. The optical oxygen sensor FDO® 925 can be used for all digital meters; it will also require the stirring attachment RZ300, just like the CelloX® 325. sensor FDO® 925 can be used for all digital meters; it will also require the stirring attachment RZ300, just like the CelloX® 325.

Multi 9310
1 Measurement Channel DO/BOD, pH, ORP, conductivity and ISE
Multi 9620
2 Measurement Channel
Multi 9630
3 Measurement Channel
Measurement range
pH : 0.000 to 14.000 pH
ORP : -1250.0 to 1250.0 mV
DO : 0.00 to 20.00 mg/L
Conductivity : 1 µS/cm to 2,000 mS/cm
Weight & dimensions
9310 : 240(W) × 190(D) × 80(H) mm Approx 0.8 kg
9310P : 290(W) × 190(D) × 80(H) mm Approx 1.0 kg
9620/9630 : 180(W) × 80(D) × 55(H) mm Approx 0.4kg

Sensors for the Determination of BOD

BOD determination with galvanized or optical oxygen sensors according to DIN EN 1899-1 and DIN EN 1899-2 - with portable and benchtop devices.

Method	Usable sensors									
CellOx® Galvanic oxygen sensor										•
StarrOx® Galvanic oxygen sensor										•
Optical IDS dissolved oxygen sensors	•	•	•	•	•	•	•	•	•	•

WTW's benchtop meters can safely determine and reliably document the biochemical oxygen demand (BSB). For this, a series of dilutions is prepared depending on the BSB, where the start and end values as well as the value of the dilution water are determined with WTW meters and sensors. With the conventional benchtop meters type inoLab® Oxi 7310 you can measure with the self-stirring StirrOx® G or with the CelloX® 325 and the stirring attachment RZ 300. The optical oxygen sensor FDO® 925 can be used for all digital meters; it will also require the stirring attachment RZ300, just like the CelloX® 325.

Our digital lab and portable meters now offer the choice to measure wirelessly!!

- DO & BOD
- pH · ORP · ISE
- MULTI · EC
- Photometry
- Piston Burette
- Titration
- Viscosity
- Refractometer
- Polarimeter
- Temp. Humid. Press
- Oil · Salinity
- TOC · ACA
- Hotplate-Stirrer

WTW OxiTop® systems are easy-to-use meters for BOD for self-monitoring. OxiTop®-IDS measuring systems can execute anaerobic and aerobic examinations across the entire spectrum of biodegradability and evaluate them on the computer.

Complete packages, for 6 or 12 samples, available and ready for immediate use Also flexible, customisable and scalable Based on pressure measurement (no mercury) Simplifies handling no need for dilution series or multiple bottles Data security with built-in memory – classic 5 measurements/days or up to 360 points and 180 days graphical results with Control systems Suitable for routine BOD5 and other special applications – compliant to multiple international methodologies and standards Incubators, accessories and consumables also available.



OxiTop®-IDS i 12-inch (Measuring system: Sensor head, sample container, stirrer, controller)

OxiTop®-i IS12 type (Measuring system: Sensor head, sample container, stirrer)

Measurement	Respiration/Biogas Determination
Measurement period	1-7 days (OxiTop®-i) 30 mins-180 days (with OxiTop®-IDS)
Measurement range	0-4,000 mg/L 0-400,000 mg/L (Multi 3620IDS/3630IDS)
Pressure mode	500-1,350 hPa (with OxiTop® Control OC 110) 500-1,250 hPa (with OxiTop®-i / OxiTop®-IDS) 500-1,500 hPa (with OxiTop®-IDS/B)

Model	OxiTop®-i		OxiTop®-IDS			
	i IS6 / i IS12	IS 6 / IS 12	B6 / B6M / B6M 2.5	A6 / A12	6 / 12	AN6 / AN12
Product image						
Application	BOD measurement Sample sealed in vessel for 5 days measuring pressure change		Soil respiration The soil samples were sealed in, to monitor the change of pressure in the head portion	OECD / aerobic applications Sample containing a non-biodegradable material, (Max 180 days) Biogas determination		Biogas determination monitor the pressure change of the gas produced by the anaerobic decomposition
Number of samples	i IS6 : 6 i IS12: 12	IS6 : 6 IS12: 12	B6 : 6 (500 ml) B6M : 6 (1L) B6M 2.5 : 6 (2.5 L)	A6 : 6 A12 : 12	6 : 6 12 : 12	AN6 : 6 AN12 : 12
Sample vessel	Amber Bottle 510 ml	Amber Bottle 510 ml	B6 : 500 ml Duran Bottle B6M : 1.0 L B6M 2.5 : 2.5 L	Transparent Bottle A6 : 1,000 ml A12 : 250 ml	Amber Bottle 510 ml	Transparent bottle AN6 : 1,000 ml AN12 : 250 ml
Measuring head	OxiTop®-i IS 6 / i IS 12	OxiTop®-IDS	OxiTop®-IDS/B	OxiTop®-IDS	OxiTop®-IDS	OxiTop®-IDS
Stirrer	i IS6 : IS6 i IS12 : IS12	IS6 : IS6 IS12 : IS12	–	A6 : IS6-Var A12 : IS12	6 : IS6 12 : IS12	AN6 : IS6-Var AN12 : IS12
Controller	–	–	----- Multi 3620 IDS / Multi 3630 IDS -----			
Software & cable	–	–	•	•	•	•
CO ₂ absorbent	•	•	•	•	•	•
Nitrification inhibitor	•	•	–	•	•	•
Overflow flask	164/432 ml	164/432 ml	–	–	–	–
Stirrer bar	i IS6 : 6 Pieces i IS12 : 12 Pieces	IS6 : 6 Pieces IS12 : 12 Pieces	–	A6 : 6 Pieces A12 : 12 Pieces	6 : 6 Pieces 12 : 12 Pieces	AN6 : 6 Pieces AN12 : 12 Pieces
Stirrer bar remover	•	•	–	•	•	•

Biochemical Oxygen Demand Test

When properly used, the BOD test provides a reliable characterization of wastewater. It can be expected to be a standard for regulatory agencies for many years even though its use as a control tool is limited by the 3 or 5 day wait required for the test (and sometimes 20 days!). Various methods (based on short-term monitoring and extrapolation) of quickly estimating the probable results of the BOD test on a sample have been devised and the interested reader is advised to consult appropriate literature but a 'true' BOD test requires time and incubation.

Portable pH • ORP • ISE • EC Meter Lab 845 / Lab 945

SI Analytics



Features

- Heavy duty
- Routine
- General academic research

User-friendly design for ease of use. The intuitive operation and robust aluminum housing make the Labs 845/945 product series perfect for multiple applications.

Model	Lab 845 pH / ORP / ISE
Scale	-2~-16pH -1,999~1,999mv -10~-100 °C ISE: 0~30,000 ppm
Resolution	0.01pH, 1mV, 0.1 °C
Accuracy	±0.01pH, ±0.3mV, ±0.1 °C
Temp	PT 1000 Temp Sensor
Connector	BNC, 4mm BC, 4-pole USB Channel
Model	Lab 945 EC
Measurement range	0~200µS/cm, 0~2,000µS/cm, 0~20 mS/cm, 0~500 mS/cm, -10~-100 °C
Resolution	0.1µS, 1 µS, 0.01 mS, 0.1 mS, 0.1 °C
Accuracy	±0.5% Measurement Value, ±0.1 (5 to 50°C)
Temp compensation	8 pole Sensor Channel, 4 pole USB Channel

Model	Lab 845 pH / ORP / ISE
Lab 845 Set/BL 19pH	Lab 845 Meter, pH Sensor BL19pH, Power, Stand, Solution
Lab 845 Set/BL 25pH	Lab 845 Meter, pH Sensor BL 25pH, Power, Stand, Solution
Lab 845 Set/BL 29pH	Lab 845 Meter, pH Sensor BL 29pH, Power, Stand, Solution
Lab 945 Set/LF435T	Lab 945 Meter, EC Sensor LF435T, Power, Stand, Test Solution
Lab 945 Set/LF513T	Lab 945 Meter, EC Sensor LF513T, Power, Stand, Test Solution
Lab 945 Set/LF613T	Lab 945 Meter, EC Sensor LF613T, Power, Stand, Test Solution



Lab 2/3 Channel Instrument ProLab 2500 series

SI Analytics



Features

- AR, ASR, CMC, QSC advanced functions
- Antisplash housing design
- GLP, user administration and traceable results
- Analogue or digital sensor

The ProLab 2500 instruments can accurately measure pH, ORP, conductivity, and DO/BOD in the laboratory. In addition, ISEs can be connected to the ProLab 2500.

Parameter	pH, ORP (mV), DO %, DO mg/L (BOD Probe), Pressure, Conductivity, Sal, TDS, Temp, ISE
Channel	24010-2, 34010-3
Data storage	Manual: 500 Points Logging: 10,000 Points 4010-2, 4010-3)
Interface	Colour graphic display
Connector	Mini USB; USB-A
Temp correction	Yes (except ORP)

Keypad	Antibacterial
Power	Universal power supply
Calibration points	DO, Conductivity = 1; pH = 1-5
Calibration history	Max 10
Calibration reminder	1~999 days user defined
Certifications	CE, cETLus
GLP compliance	Yes

Ecosense pH/EC/ORP pens pH10A / EC30A / ORP15A

YSI















pH10A EC30A ORP15A

The Ecosense Pen series is the perfect instrument for economical spot sampling of pH/ORP/EC and temperature in applications such as wastewater, surface water, aquaculture, hydroponics, pools, and education. This ultra-compact instrument even includes a graphic display with on-screen instructions!

Model	pH10A	EC30A	ORP15A
Scale	pH : pH0.00~14.00 Temp : 0.0~99.9 °C	Conductivity : 0.0 µS ~ 19.90 mS Temp : 0.0 ~ 99.5 °C	ORP : -1200~1200mV Temp : 0.0~99.9 °C
Accuracy	pH : ±0.02, ±1LSD Temp : ±0.3 °C	Conductivity : ±1% FS Temp : ±0.5 °C	ORP : 1mV, ±1LSD Temp : ±0.3 °C
Resolution	pH : 0.01 Temp : 0.1 °C	Conductivity: 0~1990 µS/cm: 5 µS/cm 2.00~19.90 mS/cm: 0.05 mS/cm Temp: 0.1 °C	ORP : 1mV Temp : 0.1 °C
Waterproof	IP67		
Memory	50 Point Memory		



Type	pH sensor options					
	SenTix 41	SenTix 81	SenTix L	SenTix SP	SenTix HWS	SenTix Mic-D/B
						
Scale		0~14 pH		2~13 pH	0~14 pH	
Temperature item	-5~80 °C	0~100 °C	-5~100 °C	0~80 °C	-5~100 °C	-5~100 °C
Connector	Epoxy	Glass		Epoxy	Glass	
Internal solution	Gel	3M KCL (Ag N/A)	3M KCL (Ag N/A)	Spare chip membrane	3M KCL (Ag N/A)	3M KCl (Ag)
Junction type	Ceramic	Platinum		Pin hole	Sleeve	Platinum
Connector		-		BNC	DIN-BNC	
Feature	SenTix 41, pH electrode, Single Junction, 3 in 1, Gel electrolyte, Epoxy shaft, 1 meter cable, BNC connector, 1 banana plug, NTC 30 kΩ	SenTix 81, pH electrode, self-flushing platinum single junction, 3 in 1, Refillable, Glass shaft, 1 meter cable, BNC connector, 1 banana plug, NTC 30 kΩ	SenTix L, Single Junction, Combination, Spear tip membrane, Epoxy shaft, 1 meter cable, BNC connector	SenTix SP, pH electrode, Double Junction, 3 in 1, Platinum junction, 170 mm length, glass shaft, 1 meter cable, BNC connector, 1 banana plug, NTC 30 kΩ	SenTix HWS, pH electrode, Double Junction, 3 in 1, ground joint junction, 170 mm length, glass shaft, 1 meter cable, BNC connector, 1 banana plug, NTC 30 kΩ	SenTix Mic-B/D, pH electrode, Double Junction, 3 in 1, Platinum junction, 170 mm length, Micro electrode, glass shaft, 1 meter cable, BNC connector, 1 banana plug, NTC 30 kΩ

Type	pH combination electrode			ORP combination electrodes		
	SenTix Sur	SenTix MIC-D	SenTix ORP	SenTix Ag	SenTix Au	SenTix PtR
						
Scale	2~13 pH	0~14 pH		-		
Temperature item	0~50 °C	-5~100 °C	0~100 °C	-5~100 °C		
Material	Glass			Glass		
Internal solution	Referid®	3M KCL (Ag N/A)	3M KCL	ELY / ORP / Ag	3M KCL	
Junction type	KPG	Platinum	Platinum	Silver	Gold	Platinum
Connector	DIN-BNC			AS/DIN/BNC		
Feature	SenTix Sur, pH electrode, Single Junction, Combination, Flat glass membrane, Glass shaft, 1 meter cable, BNC Connector	SenTix MIC-D pH electrode, Triple Junction, Iodine/Iodide reference, 3 in 1, Refillable, Micro electrode, Glass shaft, 1 meter cable, BNC connector, 1 banana plug, NTC 30 kΩ	The scale is comparable with that of pH measurement. Typical areas of use are the monitoring of the disinfection effect, the determination of ORP potentials in biochemical reactions, measuring in waters of different quality and more. The platinum electrodes can be used universally, the gold electrode is especially suited for strongly oxidizing media without the presence of chloride. The silver electrode is intended for argentometry.			

FIOLAX® Ampoule pH Buffer

SI Analytics



Features

- Reliability and measuring safety
- Extremely long storage times, thanks to hot-steam sterilization
- Without preservative agent
- A maximum of calibration safety

The exactness of the pH measurement is mainly dependent on the accuracy of calibration. This again highly depends on the reliability of the buffer.

Hermetically sealed in the glass ampoule and sterilized with hot steam, same as a pharmaceutical product, the buffer solutions free of preservation agent have an extremely long shelf life and guarantee continuously error-free characteristics.

Buffer solutions in the unique double-end ampoules offer a particularly high degree of reliability and measuring accuracy.

250mlPE bottles:
pH 4.01, 7.00, 10.01





SI Analytics Lab series includes the Lab855, Lab 865, Lab875P (single channel) instruments are easy-to-use and easy to calibrate - ideal for the laboratory.

Features (Except Lab855)

- Reliable data storage
- USB data management
- Drive/PC connection or direct printout via built-in printer

Parameter	
pH,ORP (mV)	
pH	
Scale	: -2.0~20.0; -2.00~20.00; -2.000~19.999
Resolution	: 0.1; 0.01; 0.001
Accuracy	: ±0.1; ±0.01; ±0.05 (Sample temp 15~35 °C)
ORP (mV)	
Scale	: -1,200~1,200.0
Resolution	: 0.1; 1.0
Accuracy	: ±0.3; ±1.0 (Sample temp 15~35 °C)
Temp	
Scale	: -5~105 °C
Resolution	: 0.1, Accuracy: ±0.1

Portable Cond/Salinity Meter LF40 Meter



The meter combines the features for mobile application in the field with the precision and comfort of a laboratory meter with plain text structure menu, integrated data logging system and a rugged watertight IP 65 housing. The TM 40 has an automatic temperature compensation for the pH measuring as well as an adjustable reference temperature with measurements without temperature sensor. For calibration a manual or automatic two point calibration routine can be used. Other possible applications of the device are the measurements of redox (ORP) or ISE-potential relative to the standard hydrogen electrode to DIN 38404.

Measurement range	
Range	: EC 0~200 µS/cm; 0~2,000 µS/cm; 0~20 mS/cm; 0~500 mS/cm
TDS	: 0~200 mg/l; 0~2,000 mg/l; 0~20 g/l; 0~500 g/l
Salinity	: 0~70 g/kg
Temperature	: -10~100 °C
Power supply	
(3 x AA, IEC R6, LR6, 1.5 V)	
Weight & dimensions	
200(W) x 95(H) x 40(D) mm	
290 g incl. batteries	

Portable Meters (pH • ORP • DO • ISE) HandyLab® MKII Series



Our 2nd generation of Handylab devices offers analog or digital options for the measurement of pH, ORP, dissolved oxygen and conductivity in the lab and in the field.

Scale	
pH	: 0.000~ 14.000
ORP	: -1200 ~ +1,200 mV
Temp	: -5.0 ~ +105 °C
Conductivity	: 0.00~ 2,000 mS/cm
DO	: 0.00~ 20.00 mg/l
Accuracy	
pH	: ±0.004 pH
ORP	: ±0.2 mV
Temp	: ±0.1°C
Conductivity	: ±0.5% Measurement Value
DO	: ± 0.5% Measurement Value
Calibration points	
1~5	
Interface	
USB-A, mini USB-B (HL680)	

Function	HL 100	HL 200	HL 600	HL 680
Analog	•	•	-	-
IDS Digital	-	-	•	•
1 Channel	•	•	•	-
2 Channel	-	-	-	•
pH/ORP	•	-	•	•
Temp	•	•	•	•
DO	-	-	-	•



HandyLab® MKII Measurement Set



The new mobile pH measuring devices by SI Analytics with MEMOSENS® technology offers increased safety and a userfriendly interface.

Function	HL700	HL 750	HL 750EX	HL 780
MEMOSENS® pH , ORP	•	•	•	•
Analog pH, ORP	•	•	•	•
Temp	•	•	•	•
Explosion proof Ex-Zone 0/1	–		•	–
PC Software HandyLab® Pilot	–	•	•	•
Micro USB-B	–	•	•	•
Data logger (Memory)	–	5,000	5,000	10,000
Lithium battery	–	•	–	•



Scale	
MEMOSENS® pH	: -2.000~+16.000 pH, -2,000~+2,000 mV, -50~250 °C
MEMOSENS® ORP	: -2,000~+2,000 mV, -50 ~+250 °C, ΔmV (Offset)
Analog pH	: -2~16pH, below 2-3 digit Resolution
Analog ORP	: -1,300~+1,300
Temperature	
Con	: 2 x Ø 4 mm
NTC 30 kΩ	: -20~+120 °C Pt 1000: -40~+250 °C
Accuracy/Reproducibility	: ±0.3 °C/0.2 °C
Weight & dimensions	
132(W) × 156(H) × 30(D) mm	
500g	

MEMOSENS® Process Electrodes MEMOSENS® Electrodes



Our MEMOSENS® program contains pH and redox electrodes. They are compatible to all at the market available measuring devices based on the MEMOSENS® protocol.

- Features
- Complete galvanic isolation
 - Resistant to environmental influences
 - Radical improvement in measuring point reliability
 - Lifecycle memory makes predictive maintenance possible
 - MEMOSENS® is an open system
 - All MEMOSENS® sensors and devices from the manufacturers involved are compatible with each other

Model	A7781	FLA93-MF	PL 83	SL 83	Pt 8281	PL 89	SL 89
Parameter	pH, Temp	pH, Temp	pH, Temp	pH, Temp	ORP, Temp	ORP, Temp	ORP, Temp
Length (mm)	120, 225	120, 225	120, 225	120, 225, 325, 425	120	120	120, 225
Use	General	Low temperature	High temperature	High alkalinity	Autoclave	High temperature	High temperature Autoclave
Temp Item	-5~+80 °C	-30~+100 °C	0~+130 °C	0~+140 °C	-5~+100 °C	0~+130 °C	0~+140 °C
System	Silamid®	-	Silamid®	Silamid®	Silamid®	Silamid®	Silamid®
Range/material	0~14pH Ceremic	0~14pH Platinum	0~14pH Hole junction	0~14pH Ceremic	KPG annular gap junction	Ceremic	Ceremic
Max (Bar)	12	6 (3 bar pressure variation)	12	12	12	12	12
ATEX Cert	All MEMOSENS® process electrodes are ATEX certified						

Multi-Parameter / Turbidity

Benchtop / Handheld / Sensors & Accessories

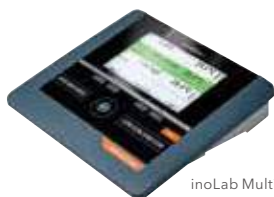
Multiparameter Benchtop Meter inoLab Multi 9000 Series



inoLab Multi 9310 IDS



inoLab Multi 9620 IDS



inoLab Multi 9630 IDS

inoLab® benchtop devices offer the correct solution for pH, ORP, dissolved oxygen and conductivity measurements in the lab.

The new inoLab® Multi 9310 IDS is highly suitable for digital measurements of pH, ORP, dissolved oxygen (optical), BOD, conductivity and turbidity in the lab. Use the new wireless modules together with the new IDS plug head sensors, be independent from cables and measure i.e. conveniently under laboratory hoods or laminar flow benches. The IDS technology allows optimized measurements and efficient documentation in the simplest manner. A USB interface or an optionally installed printer allow the documentation via the computer or directly on the meter.

Multi 9310

1 Measurement Channel
PH, ORP, DO and Conductivity.

Multi 9620

2 Measurement Channel
PH, mV, ISE, saturation, concentration, partial pressure, conductivity, spec. resistance, salinity, TDS, temperature

Multi 9630

3 Measurement Channel
PH, mV, ISE, saturation, concentration, partial pressure, conductivity, spec. resistance, salinity, TDS, temperature

Measurement range (dependent on sensor used)

pH	: 0.000 to 14.000 pH
ORP	: -1,200.0 to 1,200.0 mV
DO	: 0.00 to 20.00 mg/L
Conductivity	: 10 µS/cm to 2,000 mS/cm

Multiparameter Laboratory System ProLab 5000



Features

- Up to 4 measurement modules (inputs) in a variety of configurations
- PC software ProLab 5000 Pilot with extensive operating functions
- Coupling of autosampler and burettes for dosing and automated measurements
- Additional modules for current output possible
- Timer function, Alarm/threshold function, access control by password
- Virtual channels to calculate different parameters from the measured value
- Data storage and data recording; data transfer with RS232/USB or Ethernet
- Logbook can store up to 200 entries (GLP function)

Multi-parameter Portable Meter MultiLine 3000 Series



MPP930

High-quality portable digital IDS multi-parameter instrument with a universal measurement input for starting with digital measurement technology.

The Multi 3510 IDS compact portable multi-parameter instrument for applications with digital IDS pH/ORP electrodes, dissolved oxygen sensors, conductivity cells or turbidity sensors. Calibration records and additional information are stored in the sensor. Well laid-out menus make the operation safe and easy. With a wide range of electrodes almost every application including depth measurement down to 100 m will be covered in the field and in the laboratory.

Multi 3510

1 Measurement Channel
PH, DO, ORP, Conductivity and Turbidity.

Multi 3620

2 Measurement Channel

Multi 3630

3 Measurement Channel

Measurement range

pH	: 0.000 to 14.000 pH
ORP	: -1,200.0 to 1,200.0 mV
DO	: 0.00 to 20.00 mg/L
Conductivity	: 10 µS/cm to 2,000 mS/cm
Turbidity	: 0.0 to 4,000.0 FNU/NTU

Weight & dimensions

80(W) × 180(D) × 55(H) mm, 400g

Power Supply

4 x 1,5 V AA (supplied) 4x 1,2 V NiMH-Akku or via USB port

Portable Turbidity Meter Turb® 430 IR / Turb® 430 T



Portable nephelometric with highest precision according to DIN ISO / US EPA for water analytics, quality control and process monitoring.

Measurement ranges	Accuracy
NTU : 0.02-1100/0-1100 FNU : 0.02-1100	±0.01 NTU or ±2 % of the measured value
Reproducibility	Power supply
<0.5 % of the measured value or 0.01 NTU/FNU	4x AA batteries for approx. 3,000 measurements
	Weight & dimensions
	86(W) x 236(D) x 77(H) mm 600g

Economical Portable Turbidity Meter Turb® 355 IR / Turb® 355 T



Small portable turbidity meter as per DIN ISO / US EPA for nephelometric measurements in quality control and environmental monitoring.

Measurement ranges	Accuracy
NTU : 0 to 1,100 FNU : 0 to 1,100	0 to 500 NTU/FNU: ±0.1 NTU/FNU or ±2 % of measured value 500 to 1,100 NTU/FNU: ±3 % of the measured value
Reproducibility	Power supply
± 1% of the measured value or ± 0.05 NTU/FNU	4x AAA Alkaline batteries sufficient for more than 1,500 measurements
Resolution	
N 0.01 NTU in the range 1 to 9.99 0.1 NTU in the range 10.0 to 99.9 1 NTU in the range 100 to 1,000	

Portable Turbidity Meter WQ770-B



The Global Turbidity Meter is a highly accurate device with a fully submersible sensor for in-situ environmental or process monitoring. The meter is provided with a padded carrying case and 25' of marine grade cable, with lengths up to 100' available upon request.

Measurement ranges	Accuracy
Sensor = 0-50 NTU and 0-1000 NTU; Meter = 0-50 NTU or 0-1000 NTU selectable	+ 1% of full scale
Output	Operating Voltage
4-20mA (Sensor, both ranges), LED screen (Meter)	10-36 VDC @ 40 MS (Sensor); Internal 9VDC battery (Meter)
Cable Length	Weight & dimensions
Sensor = 25 ft standard (optional to 100 ft)	Body = (Diameter)3.8 x (Length)21.6 cm 454 g (Sensor); 907 g (Meter+sensor)

Portable Suspended Solids TSS 711



The Royce Model 711 Portable Suspended Solids/ Interface Level Analyzer is a rugged, waterproof instrument designed for the rigors of remote sampling. The meter provides reliable operation in waste treatment plants, rivers, lakes and other aqueous systems. The meter will read in either grams per liter when in the suspended solids mode or relative density percentage while in the interface level mode of operation.

Measurement range
0.01 to 10 grams per liter (10 to 10,000 mg/L)
Reproducibility
±1 % of reading or ±20 mg/L, whichever is greater
Accuracy
±5 % of reading or ±100 mg/L, whichever is greater
Power supply
Standard 9V batteries
Weight & dimensions
7"(L) x 3.2"(W) x 1.5"(D) Approx 0.45kg

COD / Residue Chloride

Photometry & Colorimeters



9500 Photometer 9300 • 9500 Photometer



YSI 9500 Photometer

The YSI 9300 and YSI 9500 are economical photometers in small packages for any application. These portable photometers allow you to easily take readings directly in the field for 100+ parameters. Selecting the desired test has never been easier. Simply choose among the list of available tests on the large graphic display and the instrument will walk you through the test procedure - it's that easy! Simple. Convenient. Accurate.

Features

- Direct reading Cons
- Waterproof IP-67 rating
- Large, backlit graphic display
- Sample tube holder automatically adjusts for various diameters
- On-screen instructions virtually eliminates reading manuals
- 100+ test choices

Accuracy

±0.5 % at 4 % transmittance; ±0.005 at 0.3 AU

Resolution

0.001AU

Wavelength

450, 500, 550, 575, 600, 650 nm

Display

Graphic, backlit LCD with on-screen instructions

Waterproof

IP 67

Power

3x AA batteries;
the 9500 can also be powered via USB

Weight & dimensions

146(W) × 275(D) × 75(H) mm
975g

YPT9500 Portable multi-parameter water quality analyser

Contents: 9500 analysis Meter, hard carrying case, the sample tube ×8, for dilution tube ×1, crash bar ×10, cleaning brush, light cap ×1, manual, USB cable

YPT9300 Portable multi-parameter water quality analyser

Contents: 9300 analysis Meter, hard carrying case, the sample tube ×8, for dilution tube ×1, crash bar ×10, light cap ×1, manual

YPT283

USB power supply

Parameter	Scale	Starter pack (50 test) Kit	(250 test) Kit
Alkalinity, Total (Alkaphot)	0~500 (CaCO ₃)	YPM188	YAP188
Alkalinity-M (Alkaphot M)	0~500 (CaCO ₃)	YPM250	YAP250
Alkalinity-P (Alkaphot P)	0~500 (CaCO ₃)	YPM251	YAP251
Aluminum	0~0.5	YPM166	YAP166
Ammonia Ammonia	0~1.0 (N)	YPM152	YAP152
Bromine	0~10.0	YPM060	YAP060
Calcium Hardness (Calcicol)	0~500 (CaCO ₃)	YPM252	YAP252
Chloride Chloride (Chloridol)	0~50,000 (NaCl)	YPM268	YAP268
Chlorine DPD 1	0~5.0	YPM011	YAP011
Chlorine DPD 2	0~5.0	YPM021	YAP021
Chlorine DPD 1&3	0~5.0	YPM031	YAP031
Chlorine DPD 4	0~5.0	YPM041	YAP041
Copper Copper (Coppercol)	0~5.0	YPM186	YAP186
Color (includes turbidity)	10~500	YPM269	N/A
Air Cyanuric Acid	0~200	YPM087	YAP087
Fluoride Fluoride	0~1.5	YPM179	YAP179
Hardness (Hardicol)	0~500 (CaCO ₃)	YPM254	YAP254
Hydrazine	0~0.5	YPM103*	YAP103
Hydrogen Peroxide LR	0~2	YPM104	YAP104
Hydrogen Peroxide HR	0~100	YPM105	YAP105
Iron LR	0~1.0	YPM155	YAP155
Iron MR	0~5.0	YPM292	YAP292
Iron HR	0~10	YPM156	YAP156
Magnesium (Magnecol)	0~100	YPM193	YAP193
Manganese	0~0.03	YPM173	YAP173
Molybdate LR	0~20	YPM258	YAP258
Molybdate HR	0~100	YPM175	YAP175
Nickel	0~10	YPM284	YAP284
Nitrate	0~20 (N)	YPM163	YAP163
Nitrite (N)	0~0.5 (N)	YPM109	YAP109
Sodium Nitrite (NaNO ₂)	0~1,500 (NaNO ₂)	YPM260	YAP260
Organophosphonate (OP)	0~20 (PO ₄)	YPM262	YAP262
Ozone	0~2.0	YPM056	YAP056
pH (phenol red)	6.8~8.4	YPM130	YAP130
Phenol	0~5.0	YPM287	YAP287
Phosphate LR	0~4.0	YPM177	YAP177
Phosphate HR	0~100	YPM114	YAP114
Potassium Potassium	0~12	YPM189	YAP189



50 Pack test kit



250 Pack test kit

*Includes 30 tests **Includes 150 tests ***Includes 200 tests. 1 Sample may be diluted to lower salt content to help avoid precipitate that can interfere with testing. Results may vary. 2 LR denotes low range 3 HR denotes high range

910 COD Colorimeter YSI 910



The 910 colorimeter is a rugged, waterproof, single parameter instrument for the measurement of COD (chemical oxygen demand). The EPA-approved COD test is useful for performing rapid, frequent monitoring of treatment plant efficiency, and results allow quick response to changing conditions in the waste stream while the traditional BOD 5 test takes 5-days to determine results.

Features

- Automatic data storage; 16 data-sets with date and time stamp
- Large, backlit LCD display
- IP68 waterproof case; easy to hold or set on benchtop; floats
- Resolution can be improved for specific Item requirements
- Known interferences can be adjusted for the sample
- Auto shutoff extends battery life
- 2-year warranty

Scale

COD Low Range: 0 to 150 mg/L,
COD Mid Range: 0 to 1,500 mg/L,
COD High Range: 0 to 15,000 mg/L

Memory

Automatic, 16 data sets with date and time stamp

Unit of measure

mg/L

Display

Graphic, backlit LCD with on-screen instructions

Waterproof

IP68

Power

Approximately 17 continuous hours or 5,000 tests, 4 alkaline AAA batteries

Weight & dimensions

155(L) × 75(W) × 38(H) mm
260g

Thermal Reactor CR 2200/3200/4200 CR4200



CR4200



CR3200



CR2200

Thermoreactor for COD and thermal digestions of standard parameters with 12 round cuvettes with 8 user defined/fixed programs with quick operation.

Model

CR4200 : 2x12 cuvette shafts for round cuvettes
CR3200 : 2x12 cuvette shafts for round cuvettes
CR2200 : 12 cuvette shafts for round cuvettes

Power

230 VAC with Euro plug

Cuvette shafts

16±2 mm

Temp setting

25 - 170°C freely programmable
100 °C, 120 °C, 148 °C, 150 °C via fixed programs

Reaction time setting

20 min, 30 min, 60 min, 120 min (via fixed programs),

Control Accuracy

± 1°C± 1% digit

COD, HR, vial reagent, pack of 150



900 COD Colorimeter YSI 900



The 900 colorimeter is a rugged, waterproof, single parameter instrument for the measurement of Total chlorine or Free chlorine. Whether you need to measure chlorine in wastewater, chlorine in groundwater, or in pools, this chlorine tester is waterproof with an easy to read display and will provide readings in minutes.

Features

- Automatic data storage; 16 data-sets with date and time stamp
- Large, backlit LCD display
- IP68 waterproof case; easy to hold or set on benchtop; floats
- Innovative light shield avoids moving parts or separate pieces that can easily be broken or lost
- Known interferences can be adjusted for the sample
- 2-year warranty

Scale

Chlorine Free : 0.02~2.0 mg/L
Chlorine Total : 0.1~8.0 mg/L

Memory

Automatic, 16 data sets with date and time stamp

Unit of measure

mg/L

Waterproof

IP68

Power

4 alkaline AAA batteries, approximately 17 continuous hours or 5,000 tests

Weight & dimensions

155(L) × 75(W) × 38(H) mm
260g

Spectrophotometer photoLab® photoLab® 7100VIS / photoLab® 7600 UV-VIS



photoLab® 7100

Model	photoLab® 7100 (VIS)	photoLab® 7600 (UV-VIS)
Wavelength range	320~1,100 nm	190~1,100 nm
Lamp	Wolfram Halogen	Xenon Flashbulb
Accuracy/reproducibility	±1 nm; < 0.5 nm	±1 nm; < 0.5 nm
Scan speed	aprox 13 nm/s	aprox 16nm/s
Reagent Free Method (OptRF)	-	COD, NO ₃ , NO ₂
Data memory	5,000 measurements, 40 MB for spectrums and kinetics	
Weight & dimensions	404(W) x 314(H) x 197(H) mm, Approx 4.5kg	



photoLab® 7600

Features

- Easy to use: place cuvette, read measurement value
- More than 250 test programs for water analysis, galvanics and general lab analytics
- Cell and reagent test kits with barcode for automatic program selection
- Automatic cuvette and measurement range detection for rectangular cuvettes
- Top reliability due to menu guided comprehensive Analytical Quality Assurance - AQA
- Measurement "Light" on the road with car battery use
- USB and Ethernet-connections for easy update, print to PDF or printer, storage and data export

Portable Meters for Photometric Meters pHotoFlex®



pHotoFlex®: portable LED photometer for environmental monitoring and extensive water and routine analytics in (mobile) service labs

pHotoFlex® STD
Absorbance measurement

pHotoFlex® pH
Absorbance measurement + pH measurement (Electrodes type)

pHotoFlex® Turb
Absorbance measurement + pH measurement (Electrodes type) Turbidity

Wavelength nm	436, 517, 557, 594, 610, 690 (+860: Turb only) nm
Measurement range	pH (pHotoFlex® pH/Turb) : 0~16 Turbidity (pHotoFlex® Turb only) : 0~1,100 NTU/FNU
Power supply	1.5V × 4 (Approx 5,000 measurements)
Weight & dimensions	86(W) × 236(D) × 117(H) mm 600g

Reagents



PhotoLab® Series
photoLab® 7100
photoLab® 7600



pHotoFlex® Series
pHotoFlex® STD
pHotoFlex® pH
pHotoFlex® Turb

Item	Symbol	Measurement range	Measurement method	photoLab® Series	pHotoFlex® Series
Acidity	-	0.40-8.00 mmol/L	Indicator	•	•
Aluminum	Al	0.02-0.50 mg/L	Chromoznol S	•	•
		0.020-1.20 mg/L	Chromoznol S	•	•
		0.05-0.40 mg/L	Chromoznol S	•	•
		0.01-0.25 mg/L	Erio Chromium cyan R	•	•
Ammoniacal Nitrogen	NH ₄ -N	0.10-2.000 mg/L	Indo phenol blue	•	•
		0.20-8.00 mg/L	Indo phenol blue	•	•
		0.5-16.0 mg/L	Indo phenol blue	•	•
		4.0-80.0 mg/L	Indo phenol blue	•	•
		0.010-3.00 mg/L	Indo phenol blue	•	•
		0.02-1.50 mg/L	Indo phenol blue	•	•
		2.0-75 mg/L	Indo phenol blue	•	•
		5-150 mg/L	Indo phenol blue	•	•
		0.00-0.50 mg/L	Salicylic acid	•	•
		0.00-2.50 mg/L	Salicylic acid	•	•
Adsorptive organic Halogen	AOX	0.05-2.50 mg/L	Iron (III) thiocyanate	•	•
Arsenic	As	0.001-0.100 mg/L	Silver diethyl dithiocarbamate	•	•
		0.002-0.100 mg/L	Silver diethyl dithiocarbamate	•	•
BOD	BOD	0.5-3,000 mg/L	Winkler test	•	•
Boron	B	0.050-0.800 mg/L	Losothianin	•	•
		0.05-2.00 mg/L	Azomethine H	•	•
Bromine	Br	0.020-10 mg/L	DPD	•	•
		0.025-1.000 mg/L	Cation derivative	•	•
Cadmium	Cd	0.002-0.500 mg/L	Cation derivative	•	•
		0.010-0.500 mg/L	Cation derivative	•	•
Calcium	Ca	1.0-15.0 mg/L	Glyoxal-bis-hydroxyanil	•	•
		5-160 mg/L	Glyoxal-bis-hydroxyanil	•	•
		10-250 mg/L	Phthalein Complexone	•	•
Chloride	Cl	5-125 mg/L	Iron (III) thiocyanate	•	•
		2.5-25.0 mg/L	Iron (III) thiocyanate	•	•
Residual Chloride (Free Total)	Cl ₂	10-250 mg/L	Iron (III) thiocyanate	•	•
		0.03-6.00 mg/L	DPD	•	•
		0.05-5.00 mg/L	DPD	•	•
Chlorine Dioxide	ClO ₂	0.010-6.00 mg/L	DPD	•	•
		0.00-2.00 mg/L	DPD	•	•
Chromium (Hexavalent)	Cr ⁶⁺	0.01-3.00 mg/L	Diphenylcarbazide	•	•
		0.01-3.00 mg/L	Diphenylcarbazide	•	•
COD	O ₂	4.0-40.0 mg/L	Chromium acid sulfate decomposition / Chromium acid	•	•
		5.0-80.0 mg/L	Chromium acid sulfate decomposition / Chromium acid	•	•
		10-150 mg/L	Chromium acid sulfate decomposition / Chromium acid	•	•
		15-300 mg/L	Chromium acid sulfate decomposition / Chromium acid	•	•
		50-500 mg/L	Chromium acid sulfate decomposition / Chromium acid	•	•
		25-1,500 mg/L	Chromium sulfate decomposition / Chromium (III)	•	•
		300-3,500 mg/L	Chromium sulfate decomposition / Chromium (III)	•	•
		500-10,000 mg/L	Chromium sulfate decomposition / Chromium (III)	•	•
		5,000-90,000 mg/L	Chromium sulfate decomposition / Chromium (III)	•	•
		10-150 mg/L	Heavy Chromium acid / sulfuric acid	•	•
COD (Mercury free)	O ₂	10-150 mg/L	Chromium acid sulfate decomposition / Chromium acid	•	•
		100-1,500 mg/L	Chromium sulfate decomposition / Chromium (III)	•	•
Copper	Cu	0.05-8.00 mg/L	Cuprizone	•	•
		0.05-7.50 mg/L	Cuprizone	•	•
		0.02-6.00 mg/L	Cuprizone	•	•
		0.04-6.00 mg/L	Cuprizone	•	•
		0.00-5.00 mg/L	Bicinchoninic acid	•	•
Cyanide	CN	0.010-0.500 mg/L	Barbituric acid / pyridinecarboxylic acid	•	•
		0.002-0.500 mg/L	Barbituric acid / pyridinecarboxylic acid	•	•
DEHA	DEHA	0.020-0.500 mg/L	Ferrozine	•	•
		0.04-1.00 mg/L	Alizarin Combrexon	•	•
Fluoride	F	0.10-2.00 mg/L	Alizarin Combrexon	•	•
		0.10-1.80 mg/L	Alizarin Combrexon	•	•
		0.025-0.500 mg/L	Alizarin Combrexon	•	•
		1.0-20.0 mg/L	Alizarin Combrexon	•	•
		0.02-8.00 mg/L	Sulfuric acid / chromotropic acid	•	•
Holm Aldehyde	HCHO	0.10-8.00 mg/L	Sulfuric acid / chromotropic acid	•	•
		0.10-7.00 mg/L	Sulfuric acid / chromotropic acid	•	•
Gold	Au	0.5-12.0 mg/L	Rhodamine B	•	•
		0.5-9.0 mg/L	Rhodamine B	•	•
Hardness (Total)	CaCO ₃	5-215 mg/L	Phthalein Complexone	•	•
Hydrazine	N ₂ H ₄	0.005-2.00 mg/L	4-(dimethylamino) - Benz Aldehyde	•	•
Hydrogen Peroxide	H ₂ O ₂	2-20.0 mg/L	Titanyl sulfate	•	•
		0.25-5.00 mg/L	Titanyl sulfate	•	•
		0.015-6.00 mg/L	Neocuproine	•	•
Iodine	I	0.050-10.00 mg/L	DPD	•	•
		0.05-4.00 mg/L	Triazine	•	•
Iron (II, III)	Fe	0.05-3.00 mg/L	Triazine	•	•
		1.0-50.0 mg/L	2,2'-dipyridine	•	•
		0.005-5.00 mg/L	Triazine	•	•
		0.010-5.00 mg/L	1,10-phenanthroline phosphorus	•	•
		0.02-3 mg/L	1,10-phenanthroline phosphorus	•	•
Iron (Total)	Fe	0.02-1.8 mg/L	TPTZ	•	•
		0.01-5 mg/L	4-(2-pyridylazo) -resorcin	•	•
Lead	Pb	0.1-5 mg/L	4-(2-pyridylazo) -resorcin	•	•
		0.005-2.000 mg/L	PAN	•	•
Magnesium	Mg	0.01-10.0 mg/L	Formaldehyde	•	•
		0.02-9.0 mg/L	Formaldehyde	•	•
		0.10-5.00 mg/L	Formaldehyde	•	•
		0.0-20 mg/L	Over Iodine acid oxidation	•	•

Item	Symbol	Measurement range	Measurement method	photoLab® Series	pHotoFlex® Series
Molybdenum	Mo	0.02-1.00 mg/L	Bromopyrogallollet	•	•
		0.5-45.0 mg/L	Mercaptoacetic acid	•	•
Monochrome Ramin	Cl ₂	0-35 mg/L	Thioglycolic acid	•	•
		0.05-10.0 mg/L	Indo phenol blue	•	•
Nickel	Ni	0.10-6.00 mg/L	Dimethylglyoxime	•	•
		0.02-5.00 mg/L	Dimethylglyoxime	•	•
		0.10-3.80 mg/L	Dimethylglyoxime	•	•
		0.10-3.00 mg/L	Resorcinol	•	•
		0.10-2.70 mg/L	Resorcinol	•	•
Nitrate Nitrogen	NO ₃ -N	0.5-25.0 mg/L	2,6-dimethyl Phenol (DMP)	•	•
		0.5-18.0 mg/L	Nitrospectral	•	•
		0.5-14.5 mg/L	Nitrospectral	•	•
		1.0-50.0 mg/L	2,6-dimethyl Phenol (DMP)	•	•
		23-225 mg/L	2,6-dimethyl Phenol (DMP)	•	•
		0.2-17.0 mg/L	Resorcinol	•	•
		0.2-13.0 mg/L	Resorcinol	•	•
		0.2-20.0 mg/L	Nitrospectral	•	•
		0.1-25.0 mg/L	2,6-dimethyl Phenol (DMP)	•	•
		0-30 mg/L	Chromotrophate	•	•
Nitrate Nitrogen	NO ₂ -N	0.010-0.700 mg/L	Grease reaction	•	•
		0.00-0.50 mg/L	Grease reaction	•	•
		0.002-1.00 mg/L	Grease reaction	•	•
		0.01-0.50 mg/L	Grease reaction	•	•
		1.0-90.0 mg/L	Sulfuric acid Iron (II)	•	•
Total Nitrogen	TN	0.03-0.6 mg/L	Sulfanilic acid / naphthylamine	•	•
		0.3-3 mg/L	Sulfanilic acid / naphthylamine	•	•
		0.00-0.3 mg/L	Diazotization	•	•
		0.5-15.0 mg/L	After peroxodisulfuric acid decomposition, nitrospectral	•	•
		10-150 mg/L	After peroxodisulfuric acid decomposition DMP	•	•
Volatile organic acid	-	0.5-25 mg/L	After peroxodisulfuric acid decomposition DMP	•	•
		10-140 mg/L	Persulfate decomposition - Chromotrophic acid	•	•
Dissolved Oxygen	O ₂	50-3000 mg/L	Hydroxamic acid / Iron (III)	•	•
		0.5-12.0 mg/L	Winkler test	•	•
Ozone	O ₃	0.010-4.00 mg/L	DPD	•	•
		0.01-3.50 mg/L	DPD	•	•
Phenol	C ₆ H ₅ OH	0.002-5.000 mg/L	4-aminoantipium phosphorus	•	•
		0.10-2.50 mg/L	MBTH	•	•
Orthophosphoric acid	PO ₄	0.5-25.0 mg/L	Molybdenum acid vanadium	•	•
		3.0-100.0 mg/L	Phospho molybdenum blue	•	•
		1.0-70.0 mg/L	Phospho molybdenum blue	•	•
		0.01-5.00 mg/L	Phospho molybdenum blue	•	•
		0.20-2.50 mg/L	Phospho molybdenum blue	•	•
		0.5-30.0 mg/L	Molybdenum acid vanadium	•	•
		1.0-100.0 mg/L	Phospho molybdenum blue	•	•
		1.0-50.0 mg/L	Phospho molybdenum blue	•	•
		0.00-0.80 mg/L	Ascorbic acid	•	•
		0.00-1.60 mg/L	Ascorbic acid	•	•
Total phosphorus	TP	0.05-5.00 mg/L	Phospho molybdenum blue	•	•
		0.05-3.00 mg/L	Phospho molybdenum blue	•	•
		0.5-25.0 mg/L	Phospho molybdenum blue	•	•
		0.5-15.0 mg/L	Phospho molybdenum blue	•	•
		0.00-1.1 mg/L	Persulfate decomposition / Ascorbic acid	•	•
pH	pH	6.4-8.8	Phenol red	•	•
		5.0-50.0 mg/L	Carginoist / turbidity	•	•
Potassium	K	30-300 mg/L	Carginoist / turbidity	•	•
		0.011-1.600 mg/L	Silico molybdenum blue	•	•
Silica	SiO ₂	0.11-10.70 mg/L	Silico molybdenum blue	•	•
		1.1-1070 mg/L	Silico molybdenum blue	•	•
Silver	Ag	0.0-1.6 mg/L	Heteropolive blue	•	•
		0-100 mg/L	Silicomolybdenum acid	•	•
Sodium	Na	0.25-3.00 mg/L	Eosin / 1,10-phenanthroline phosphorus	•	•
		0.25-2.75 mg/L	Eosin / 1,10-phenanthroline phosphorus	•	•
Sulfate	SO ₄	10-300 mg/L	Iron (III) thiocyanate	•	•
		5-250 mg/L	Barium sulfate / turbidity	•	•
Sulfide	S	50-500 mg/L	Barium sulfate / turbidity	•	•
		100-1,000 mg/L	Barium sulfate / turbidity	•	•
Sub Sulfate	SO ₃	25-300 mg/L	Tannic acid	•	•
		0-70 mg/L	Barium sulfate - turbidity	•	•
Surfactant (+ Ion)	CTAB	0.02-1.50 mg/L	Dimethyl-p-phenylenediamine	•	•
		1.0-20.0 mg/L	Elman reagent	•	•
Surfactant (- Ion)	MSAS	0.05-3.00 mg/L	Elman reagent	•	•
		1.0-60.0 mg/L	Elman reagent	•	•
Surfactant	Triton	0.05-1.50 mg/L	Dysarfin blue	•	•
		0.05-2 mg/L	Methylene blue	•	•
Tin	Sn	0.10-7.50 mg/L	TBPE	•	•
		0.10-2.50 mg/L	Pyrocatechol bio red	•	•
TOC	TOC	5.0-80.0 mg/L	Peroxodisulfuric acid decomposition / Indicator	•	•
		50-800 mg/L	Peroxodisulfuric acid decomposition / Indicator	•	•
Lead	Zn	0.025-1.000 mg/L	PAR	•	•
		0.20-5.00 mg/L	PAR	•	•

Piston Burette / Titration

Selection table titration - piston burettes TITRONIC® and automatic titrators TitroLine®



Application	TITRONIC® 300	TITRONIC® 500	TitroLine® 5000	TitroLine® 7000
Intelligent interchangeable units (5, 10, 20 and 50 ml)	1	■	1	■
Manual Titration	■	■	■	■
Dosing	■	■	■	■
Solutions preparation (manually or automatically with con balance)	-	■	-	■
Automatic titration (independent with external software)	2	2	■	■
pH/mV titrations "aqueous" (Alkalinity, hydrochloric acid, citric acid, Kjeldahl...)	-	-	■	■
pH/mV titrations "non aqueous" (TAN/TBN, FFA, titrations with perchloric acid...)	-	-	-	■
Redox titrations (iodometry, permanganometry...)	-	-	■	■
Redox titrations (COD)	-	-	■	■
Halide titrations (chloride, "salt"...)	-	-	■	■
Hydrogen sulphide and mercaptans	-	-	-	■
Sulfurous acid in wine and beverages	-	-	-	■
Bromine number	-	-	-	■
Conductivity Measurement (Smart Sensor (IDS®))	-	-	-	-
pH-stat-applications (enzyme kinetics, soil samples, biotechnology)	-	-	-	■
Water analysis according to KF Volumetric method (10 ppm - 100 %)	-	-	-	-
Water analysis according to KF Coulometric method (1 ppm - 5 %)	-	-	-	-
Sample	-	-	-	■
TitriSoft	■	■	-	■

1) 20~50 mL User selectable cylinder sizes

2) Can be used as titration and dosing burette in automatic titration systems



TitroLine® 7500 KF

TitroLine® 7500 KF trace

TitroLine® 7750

TitroLine® 7800

	TitroLine® 7500 KF	TitroLine® 7500 KF trace	TitroLine® 7750	TitroLine® 7800
	■	■	■	■
	-	-	■	■
	■	-	■	■
	■	-	■	■
	■	■	■	■
	-	-	■	■
	-	-	■	■
	-	-	■	■
	-	-	■	■
	-	-	■	■
	-	-	■	■
	-	-	■	■
	■	■	■	■
	-	-	-	■
	-	-	■	■
	■	-	■	■
	-	■	-	-
	-	-	■	■
	■	■	■	■

Hotplate-Stirrer
TOC-ACA
Oil-Salinity
Temp-Humid-Press
Polarimeter
Refractometer
Viscosity
Titration
Piston Burette
Photometry
MULTI-EC
pH-ORP-ISE
DO & BOD



The new burette TITRONIC® 300 not only allows you to perform dosing operations quickly and easily but also accomplishes manual titrating operations without difficulty. The burette can be used with all dosing liquids, solvents and titrants.

The adjustment of any dosing volume and the dosing speed is made simply by pressing a button. For incremental dosing operations, the entry of the volume and the waiting time between the volume increments can be adjusted just as easily and quickly.

Burette capacity	20 ml-50 ml
Burette accuracy	20mL Burette : ±0.15 mL, Reproducibility: ±0.05 mL Resolution: 0.005 mL
	50mL Burette : ±0.025 mL, Reproducibility: ±0.25 mL Resolution: 0.025 mL (EN ISO 8655-6)
Interface	1x USB-A and 1x USB-B, 2x RS-232-C
Power	100-240 V or more, 50/60 Hz, Power30VA
Weight & dimensions	135(W) × 310(H) × 205(D) mm 2kg (not including stirrer)



The TITRONIC® 500 is the perfect piston burette for manual titrations, accurate dosing of small and large volumes and the preparation of solutions.

The TITRONIC® 500 can also be used as automatic dosing (TitroLine® 7000, TitriSoft 3.0) and titration burette (TitriSoft 3.0).

Features

- Intelligent exchangeable units with 5, 10, 20 and 50 ml volume
- Connection of printer and analytical balances
- Complete remote control via RS232 or USB-B interface thanks to the two RS232 ports it is possible to connect up to 16 devices on one RS232 or USB port at ones

Burette capacity	5 ml, 10 ml, 20 ml, 50 ml
Burette accuracy	Accuracy : ±0.1-0.15 %, Reproducibility : ±0.05-0.07 % (EN ISO 8655-6)
Display	3.5"-1/4 VGA TFT LCD
Interface	2x USB-A and 1x USB-B, 2x RS-232-C, 1xLAN
Power	90-240V or more, 50/60 Hz, Power30VA
Weight & dimensions	153(W) × 45(H) × 296(D) mm 3.5kg (not including stirrer)

Accessories



TZ 3880	285220530
Manual controller	
TZ 3803	285220590
1,000 ml	
TM 50	285225840
TITRONIC®300 + TitroLine®5000 stirrer	
TZ 3830	285220420
USB Channel expansion hub	
TZ 3835	285220410
USB Channel expansion hub	
TZ 3865	285220440
DIN A4 Printer	
TZ 3863	285220480
112 mm USB-Thermo printer	
TZ 3864	285220710
Printer paper (5 rolls)	

SI Analytics

By developing the glass electrode 75 years ago, SCHOTT laid the foundation for the success of electrochemical measurement. With high-performance pH glasses, innovative electrodes and electrochemical measuring instruments such as pH meters, conductivity meters, oxygen measuring instruments, piston burettes and titrators.



This new automatic titrator combines a syringe burette and pH/mV meter plus integrated intelligence. This intelligence carries out the parameterisation of the method for you.

The new Titrator TitroLine® 5000 offers even more features than its predecessor and is even more convenient to use.

Burette capacity	
20ml~50ml	
Burette accuracy	
20mL Burette	:±0.15 mL, Reproducibility: ±0.05 mL
50mL Burette	:±0.025 mL, Reproducibility: ±0.25 mL
Interface	
1x USB-A and 1x USB-B, 2x RS-232-C	
Power	
100~240V or more, 50/60 Hz, Power 30VA	
Weight & dimensions	
135(W) × 310(H) × 205(D) mm 2kg (not including stirrer)	



TitroLine® 7000 is with its spectrum of benefits the ideal entry into the potentiometric titration and the perfect choice for applications in the field of food, water/waste water and environmental analysis. Thanks to the high-Resolution and precise pH/mV and “dead-stop” measuring interface is it possible to determine a wide range of parameters.

Features

- High Resolution pH/mV measuring interface and measuring input for temperature measurement
- Measuring interface for polarisable electrodes (“dead-stop”)
- Available standard methods such as FOS/ TAC, alkalinity, total acidity in soft drinks
- Linear and dynamic titration to equivalence point
- Titrations to pH, mV and µA end point
- Manual titrations and dosing tasks are also practicable

Burette capacity	
5 ml, 10 ml, 20 ml, 50 ml	
Burette accuracy	
Accuracy	: ±0.1~0.15 %
Reproducibility	: ±0.05~0.07 % (EN ISO 8655-6)
Applications	
<ul style="list-style-type: none"> • Acid and base numbers in oils • Titrations in glacial acetic acid with perchloric acid • Hydroxyl, NCO (Isocyanate) number and further specific values • Determination of the enzyme activity (ex. Lipase) • pH stat elution of soil sample at pH 4 • Monitoring of the pH value during chemical syntheses 	
User-defined methods	
TL 7000 : 50x	
Interface	
1x LAN, 2x USB-A, 1x USB-B, 2x RS232	



The TitroLine® 7800 enhanced the universal features of the TitroLine® 7750 with an additional IDS® measurement input. The TitroLine® 7800 is able to perform a range of titrations from potentiometric titrations to Karl Fisher.

The IDS (intelligent digital sensors) automatically store their unique serial number and calibration data. In addition, they also digitally process the measurement signal.

Burette capacity	
5 ml, 10 ml, 20 ml, 50 ml	
Burette accuracy	
Accuracy	: ±0.1~0.15 %
Reproducibility	: ±0.05~0.07 % (EN ISO 8655-6)
Measurement channel	
<ol style="list-style-type: none"> 1. (analog) pH/mV with reference electrode input 2. (IDS) IDS Accuracy +/- 1 digit in dependence from the used IDS-electrode 	
Interface	
90~240V or more, 50/60 Hz, Power30VA	
Power	
1x LAN, 2x USB-A, 1x USB-B, 2x RS232	
Weight & dimensions	
153(W) × 45(H) × 296(D) mm 2.3 kg for basic unit 3.5 kg for complete device incl.	

DO & BOD
pH · ORP · ISE
MULTI · EC
Photometry
Piston Burette
Titration
Viscosity
Refractometer
Polarimeter
Temp · Humid · Press
Oil · Salinity
TOC · ACA
Hotplate · Stirrer

Karl Fisher Titration / Samplers

TitroLine® 7500 KF TitroLine® 7750

SI Analytics



The TitroLine® 7500 KF is the volumetric generalist for a wide range of use.

Features

- Fast, easy and precise
- With standard methods for different applications (titer determination, blank value...)
- High visible full color display, that can be easily viewed from a distance and extreme angles
- Storage of results via USB port (PDF- and CSV -format)
- With intelligent interchangeable modules

Specifications

TitroLine® 7500KF

Application

KF volumetry, dead-stop-titrations (SO₂, bromine number)

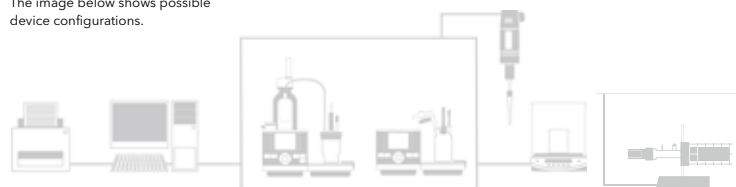
TM 235 KF	285220900
Titration stand with pump; Scope of delivery: Basic unit with 1 l DURAN®-reagent bottle TZ 1791, 1 l DURAN®-waste bottle TZ 1792, moisture bottle, tubes and screw threads, power supply TZ 1855 (110 to 240 V)	
TZ 1770	285216677
KF Titration vessel set	
KF 1100	285102030
KF Titration platinum electrode	
TZ 1748	285216560
Stainless Steel support Bar Ø 10 mm	
TZ 1789	285221120
Starter Kit	

TitroLine® 7500 KF Trace TitroLine® 7500 KF trace

SI Analytics



The image below shows possible device configurations.



TitroLine® 7500 KF trace is the specialist for low water contents.

Features

- Fast, easy and precise
- With standard methods for different applications (titer determination, blank value...)
- High visible full color display, that can be easily viewed from a distance and extreme angles
- Storage of results via USB port (PDF- and CSV -format)

Measurement range	1 pp~5 %
Titration accuracy	<0,3 % (1 mg Water)
Number of method	50
Display	3,5"-1/4 VGA TFT
Interface	2× USB-A and 1× USB-B, 2× RS-232-C
Weight & dimensions	153(W) × 45(H) × 296(D)mm 2.3 kg (not including stirrer)

Sampler Carousel TW Alpha plus & TW7400

SI Analytics

TW alpha plus



TW alpha plus sample changer

Now that GLP and ISO 900X have been adopted, the number of samples obtained is constantly rising. The new TW alpha plus from SI Analytics will help you to meet these additional requirements. Our sample changer enables you to titrate in series with automatic sample changing.

Features

- Extremely robust and long-lasting
- Various sample plates from 12~24 positions for standard bechers acc. to DIN
- Sample vessels from 50~400 ml
- Sample plate for CSB vessels acc. to DIN with 24 positions
- Different titration heads
- Connection for cleaning and suction pump but also cleaning in pre-defined vessels or for conditioning of electrodes



TW 7400

Model	TW alpha plus	TW 7400
Number of samples	24x 50 ml beaker, 16x 150 ml beaker, 12x 250 ml beaker, 24x COD beaker	42x 150 ml~250 ml beaker, 48x 100 ml beaker, 72x 50 ml beaker
Use	Various automatic Measurement Applications (Micro-Titration, COD Titration)	42 Sample: Water quality and environmental 72 Sample: pH of the soil, the alkalinity of the sea Water, beverage, 48 Sample: Wine

Titration Electrodes

SI Analytics

Application	pH Electrode	Temp Electrode
Acid-base-titrations		
Aqueous, general strong acid and bases	A 7780	A 7780 1M-DIN-ID
Kjeldahl	A 7780	A 7780 1M-DIN-ID
Alkalinity	N 62, N 61	A 162-2M-DIN-ID
Aqueous, difficult applications	IL-pH-A120MF,IL-pH-A170MF	A 162-2M-DIN-ID
Low ionic liquids	IL-pH-A120MF,IL-pH-A170MF	A 162-2M-DIN-ID
Small sample amounts	N 5900 A	A 157-IL-MICRO-pHT-A-DIN-N
Titration with sample changer (100~250 ml vessels) beaker	N 65	A 162-2M-DIN-ID
Titration with sample changer (50 ml vessels, micro) beaker	N 5900 A	-
Non aqueous acid base-titrations		
TAN (ASTM 664)	N 6480 eth	-
OH-No, NCO-No, FFA saponification No. ...	N 6480 eth	-
TBN (ISO 3771/ASTM 2896)	N 6480 eis	-
Epoxy value	N 6480 eis	-
Titration with perchloric acid/acetic acid	N 6480 eis	-
Precipitation titrations		
Halogenides (chloride, "salt")	AgCl 62,AgCl 62 RG	-
Halogenides, sample changer	AgCl 65,AgCl 62 RG	-
Pseudo halogenides (cyanide ...)	Ag 6280	-
Detergents	TEN 1100	-
Redox titrations		
General, iodometric permanganometric, cerimetric	Pt 62,Pt 6280	-
Iodine number, peroxid number	Pt 61	-
COD	Pt 61	-
Sample changer, general	Pt 6580	-
Sample changer, COD	Pt 5901	-
Dead stop (SO2 bromine no. ...) general	Pt 1200	-
Dead stop (SO2 bromine no. ...) sample changer, general and titration vessels	Pt 1400	-
Dead stop (SO2 bromine no. ...) sample changer micro	KF 1100	-
KF-titrations	KF 1100	-
Complexometric titrations		
Water hardness (Ca/Mg separated)	Ca 1100 A	-
Water hardness, total	Cu 1100 A	-



TitriSoft 3.0+ Optimum Software for Auto Sampler Systems

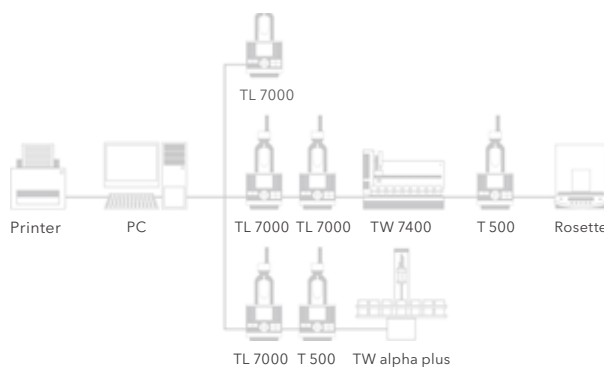
SI Analytics

The TitriSoft 3.0 titration software is the optimum solution for your titration tasks. The software can be used with Windows XP, Vista and 7 and supports your daily work procedures during sample preparation, titration and evaluation of the results. The software has been developed to be clear, logical and user-friendly.

You can connect the titration hardware to any of your PC's available USB-A or serial interfaces. Each of the interfaces allows different combinations of devices (configurations).

To automate a titration procedure the software may be used to control the TitroLine® 7000 in connection with the TW alpha plus sample changer. For more complex titration tasks with sample preparation you can dose with piston burettes followed by titration with a TitroLine® 7000. Of course, you can also use the software for dosing only.

The image below shows possible device

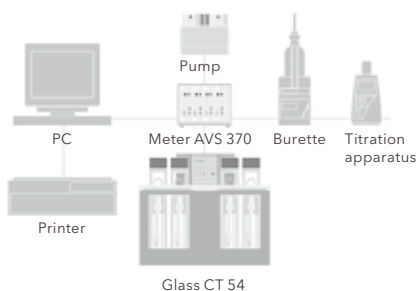


DO & BOD
pH · ORP · ISE
MULTI · EC
Photometry
Piston Burette
Titration
Viscosity
Refractometer
Polarimeter
Temp · Humid · Press
Oil · Salinity
TOC · ACA
Hotplate · Stirrer

Kinematic Viscosity

ViscoSystem AVS® 370 (PC Compatible) ViscoSystem® AVS® 370

SI Analytics



The ViscoSystem® AVS® 370 is the first viscosity measuring device, which can be used for both "suction" and "pressure" measurement. This enables simple adjustment of the method of measurement to each sample. This significantly reduces investment costs for measuring stations at which pressure and suction methods are to be used.

In most cases, using the AVS® 370 also achieves noticeable savings. With the ViscoSystem® AVS® 370 we have created a measuring device, which not only measures as precisely and consistently as you expect from SI Analytics, but also offers you maximum flexibility and possibilities for future extensions. Furthermore, it also saves valuable space on the laboratory bench.

Scale

Time : 0 ~9,999.99Sec, Resolution 0.01 sec
 Viscosity : Pressure: 0.35-1,800 mm²/sec (cSt),
 Suction: 0.35-5,000 mm²/sec (cSt)

Measured parameter

Flow through time [Sec]

Accuracy

± 0.01 %

Pump Pressure

Automatically controlled

Preselectable number of measurements

Up to 10

Data input/output

Serial EIA RS-232-C

Power

90-240V (50/60 Hz)

Weight & Dimensions

255(W) × 320(D) × 205(H) mm
 5.4 kg

ViscoSystem® AVS® 470 ViscoSystem® AVS® 470

SI Analytics



*ViscoSystem® AVS® 470:
 Perfectly equipped for fully automatic viscosity measurement

The new ViscoSystem® AVS® 470 from SI Analytics generates not only exact and reproducible measured values, but also offers a high degree of flexibility.

The ViscoSystem® AVS® 470 works according to the glass capillary method - the most accurate method for physically determining the viscosity of Newtonian liquids.

New feature: measurements under vacuum and under pressure with a single instrument, independent of a PC.

Scale

Time : 0~9,999.99 sec, Resolution 0.01 sec
 Viscosity : Pressure: 0.35~1,800 mm²/sec (cSt),
 Suction: 0.35~5,000 mm²/sec (cSt)

Measured parameter

Flow through Time [Sec]

Sample interval accuracy

± 0.01 %

Pump pressure (automatically controlled)

suction up to -160 mbar, pressure up to +160 mbar

Preselectable number of measurements

1~99 between

Data input/output

Serial EIA RS-232-C

Power

90-240V (50/60Hz)

Weight & dimensions

255(W)×320(D)×205(H) mm
 5.4 kg

AVS®Pro III - Measuring the viscosity automatically AVS® Pro III

SI Analytics



The autosampler AVS®Pro III is a fully automatic measuring station for determining the viscosity of Newtonian liquids using capillary viscometers. Despite its high sample throughput, the AVS®Pro III is characterized by its high accuracy and reproducibility.

The AVS®Pro III is simple to use and allows unattended day and night operation. The AVS®Pro III helps to considerably reduce the workload of qualified employees, particularly when working with time-consuming series measurements.

Sampling System

- Sampling Bottles
 100 ml screw-type and bottles (16 bottles/Rack)
 20 ml round bottom glass pieces (56 pcs. per rack)
- Sample Rack
 100 ml screw-type and bottles
 standard ground joint
 100 ml ml screw-type and bottles (temp 135 °C)
 20 ml round bottom glass pieces

Measured value recording

Meniscus scanning by means of opto-electronic system or thermal conductivity (TC)

Power

230V or 115V (50/60Hz)

ViscoClock Plus - Semi-automatic Viscosity Measuring Unit

SI Analytics



ViscoClock Plus

The ViscoClock Plus is an electronic time-measuring unit used to determine absolute and relative viscosity. It consists of a stand which is used to mount a viscometer or the electronic measuring unit. The two measuring levels are integrated in the stand made of high-quality PPA synthetic material, and the electronic measuring unit is included in a PP casing. The large LCD display allows the measured values to be read off easily.

Data can be stored or exported to a USB drive with sample ID, date, time or printed via optional printer.

Measuring range

Time : ~999.99 sec, Resolution 0.01
viscosity : 0.35 - 10,000 mm²/s(cSt)

Sample Temperature

-40 - 150°C

Accuracy

± 0.01 s / ± 1 digit; however no more precise than 0.1 %
indicated as measuring uncertainty with a confidence level of 95 %

Display

LCD graphic display (FSTN) 128x64 pixel, 51x31 mm (w x h)

Thermostats and Flow-Thru cooler CT 72 Series CT 72 Series

SI Analytics



The transparent thermostat CT 72 is made of acrylic glass and it is able to take up to two automatic measurement positions or brackets for manual measurements. With its temperature stability of ±0.01 K and a working range up to +60 °C, the CT 72 is a favorably priced alternative for these applications.

Measuring range

Time : ~999.99 sec, Resolution 0.01
viscosity : 0.35 - 10,000 mm²/s(cSt)

Accuracy

± 0.01 s / ± 1 digit; however no more precise than 0.1 %
indicated as measuring uncertainty with a confidence level of 95 %

Display

LCD graphic display (FSTN) 128x64 pixel, 51x31mm (w x h)

Power

115 V or 250V

Capillary Viscosity Tubes

SI Analytics

Ubbelohde viscometers

Viscometers with suspended ball level for determination of absolute and relative kinematic viscosity of liquids with Newtonian flow behavior. The calibrated viscometers are delivered with manufacturer's certificate in accordance with DIN 55 350, Part 18.

Cannon-Fenske viscometers

Cannon-Fenske routine viscometers comply with standards ISO/DIS 3105, ASTM D 2515, BS 188 with respect to technical measuring specifications

Ostwald viscometers

Are suitable for measurements of small liquids quantities even extreme formation of foam



Sample	Ubbelohde	Micro Ubbelohde	TC Ubbelohde	Ostwald	Micro Ostwald	Cannon-Fenske Routine	Cannon-Fenske reverse flow	BS/IP-U tube reverse flow
Transparent liquids manual measurement	++	++	-	+	+	+	o	o
Transparent liquids automatic measurement	++	++	+	-	+	+	-	-
Opaque liquids manual measurement	-	-	-	-	-	-	+	++ ²⁾
Opaque liquids automatic measurement	-	-	++ ¹⁾	-	-	-	-	-
Foaming liquids	o	o	o	+	+	+	o	o
Liquid mixture with highly volatile components	o	o	o	+	+	+	o	o
Minimum measurement substance and/or rinsing agent quantities	-	++	-	-	+	-	-	-
High-temperature or low temperature measurement	+	+	+	o	o	o	o	o

Selection of glass capillary viscometers use preferably ++ highly suitable + less suitable o less suitable - 1) 30,000 mm²/s or less 2) 30,000 mm²/s or more

DO & BOD
pH · ORP · ISE
MULTI · EC
Photometry
Piston Burette
Titration
Viscosity
Refractometer
Polarimeter
Temp. · Humid. · Press
Oil · Salinity
TOC · ACA
Hotplate · Stirrer

Handheld Refractometer

Refractometers & reference materials

Digital Handheld Refractometers OPTi & OPTi+



OPTi refractometers are constructed using the latest manufacturing techniques including stainless steel injection molding to construct the easy clean prism dish, ultrasonic welding to bond the housings and a rubberized switch membrane to further protect against moisture ingress and excess wear.



Stainless steel prism dish rapidly stabilises sample temperature.

Ultrasonically welded ABS case and silicon rubber switch membrane protects against water ingress to IP65.



Full Resolution display of concentration or temperature.

Simple ZERO calibration requires only water on all models



Certificate of Calibration

- Supplied with a Certificate of Calibration as standard
- All models verified using UKAS Certified Reference Materials in accordance with EN ISO IEC 17025:2005

Scale

Sugar content (Brix) : 0-54 Brix or 0-95 Brix
Refractive Index (RI) : 1.33-1.42, 1.33-1.54

Resolution

Sugar content (Brix^o) : 0.1
Refractive Index (RI) : 0.0001

Accuracy

Sugar content (Brix^o) : ±0.2
Refractive Index (RI) : ±0.0003

Automatic temperature compensation (ATC)

ICUMSA, None or Application Specific (model dependent)

Working/sample temp Range

5-40 °C / 5-95 °C

Battery life expectation

10,000 readings minimum

Features

- Precise digital LCD readout
- Ergonomic IP65 rated design
- Shallow stainless steel prism dish
- Rapid temperature stabilization
- Durable silicon rubber keypad
- Certificate of Calibration
- Half or full Brix range
- Single and Duo scale models
- Over 40 different scale types
- Brix or scale specific ATC
- Temperature display (°C/F)
- Zero calibration with water
- Unique "AG Fluid Test mode"

CRM Certified Reference Materials AG Fluid and Calibration Oil



CRMs including low range AG Fluids and for higher refractive index measurement, Calibration Oils are available as single value multipacks or now as mixed multi-packs, allowing users to verify the whole measuring range from a single, long life pack covering the refractive index range 1.33 to 1.56 RI, equivalent to 0-90 °Brix.

Specifications - General

Certificate: UKAS (ISO17025)
Shelf Life: 12-months (minimum)
Storage: Room temperature
Keep sealed
Traceability: ICUMSA / NIST

Specifications - Values

Type	Refractive Index ²	°Brix ³
AG2.5	1.33659	2.50
AG5	1.34026	5.00
AG7.5	1.34401	7.50
AG10	1.34782	10.00
AG11.2	1.34968	11.20
AG12	1.35093	12.00
AG12.5	1.35171	12.50
AG15	1.35568	15.00
AG40	1.39986	40.00
BSLP ⁴	1.46453	69.62
BSDC ⁴	1.51655	89.59
BSDD ⁴	1.56138	---

Mixed CRM Multi-pack - FIVE

Multi-Pack of 5 x 5ml bottles (1 of each value below) including UKAS Certificates(5), SDS(5) & disposable pipettes (5).

Description	Code	AG2.5	AG5	AG7.5	AG10	AG11.2	AG12.5	AG15	AG40	BSLP	BSDC	BSDD
Soda	•				•			•	•	•		
Beverage (USA)				•			•	•	•	•		
Juice				•		•		•	•	•		
Pharma & Chem					•			•	•		•	•
Petrochemical					•				•	•	•	•

Manufactured in the UK using only the highest quality optical components and the most modern manufacturing practices, the Eclipse refractometer is the ultimate optical hand held refractometer on the market today. A comprehensive choice of scale types offers versatility across a wide application scope from testing fruit ripeness in the field to monitoring industrial fluids in harsh machine shop environments. Eclipse refractometers have a number of unique features not available on many other brands of refractometer and are supplied complete with a foam carry case, instruction manual and a Certificate of Calibration showing traceability to International standards.



Features

- All metal construction
- Rubber hand grip for insulation
- Robust ergonomics for easy handling
- Anti-roll supports
- High precision, clear scale
- Sample 'dribble' feed
- Zero adjust with lock
- Push on prism flap
- Ideal for hot & cold samples
- Serial numbered
- Certificate of Calibration



Food, Beverage, Sugar & General Models

Code	Description	Range	Scale Division
45-01	Sugar % (°Brix)	0~15	0.1
45-02	Sugar % (°Brix)	0~30	0.2
45-07	Sugar % (°Brix)	0~32	0.2
45-03	Sugar % (°Brix)	0~50	0.5
45-08	Sugar % (°Brix)	28~65	0.2
45-05	Sugar % (°Brix)	45~80	0.2
45-06	Sugar % (°Brix)	72~95	0.2
45-22	Wine - °Zeiss (ABV)	10~135	1.0
45-27	Water-in-Honey (%)	10~30	0.2
45-81	Low Volume (Nectar <1-micro-litre)	0~50	0.5
45-82	Low Volume (Nectar <1-micro-litre)	45~80	0.2

Industrial Models

Code	Description	Range	Scale Division
45-26	Starch (%)	0-30	0.2
45-41	Refractive Index	1.330~1.420	0.001
45-44	Antifreeze - °C Protection - Battery acid SG	0 to -40 1.1~1.35	5 0.05
45-45	Antifreeze - °F Protection - Battery acid SG	30 to -40 1.1~1.35	5 0.05
45-46	Antifreeze - % Ethylene Glycol - % Propylene Glycol	0~60 0~60	2.5 2.5
45-65	Salinity (% NaCl)	0~28	0.2

Alcohol Measurement by Refractometer and Hydrometer ABV Kit



The alcohol content of beer, wine and cider may easily be established by combining the results of two simple test measurements, that of a refractometer (RI-Zeiss) and a hydrometer (SG). We offer a simple Internet calculator that can be accessed via a networked PC or web enabled mobile phone.

Only a few drops of sample are needed to make the refractometer reading, while the S.G. is measured in the usual way with the hydrometer jar. The process takes only a few minutes to carry out and an accuracy of about ±0.5% alcohol can be obtained using reasonable care in ensuring that both readings are made at the same temperature.

Equipment Required

- OPTi or Eclipse refractometer (RI-Zeiss)
- Hydrometer or Saccharometer
- Hydrometer jar
- Pipette or other suitable applicator

Features

- % ABV
- Cava fermentation
- Wine alcohol content
- Cider alcohol content
- Beer alcohol content
- Trading Standards

Example - Light Dry Table Wine

- S.G. = 0.993 & Refractometer reading = 37
- D (S.G. value) = (0.993-1) x 1000 = -7
- R-D = 37 - (-7) = 44
- Alcohol content = 10.7% v/v

Benchtop Refractometer

Entry Model Benchtop Refractometer (no temperature control) RFM 700 Series



Features

- Classic red or modern color display
- Auto-sense "hands free" measurement
- Simple audit trail (date, time & batch no.)
- Alpha-numeric keypad for easy data entry
- USB connectivity
- Flat sapphire prism surface for easy-cleaning
- Simple operation for factory environments

RFM700 series refractometers are robust, low cost, fully automatic instruments that are ideally suited to the food, sugar and beverage industries but can also be used in many other non-food applications where temperature control is not required.

Special application models

Description	RFM712-M	RFM732-M	RFM742-M
Scales			
Refractive index	1.32~1.42	1.32~1.54	1.32~1.54
Sugar (°Brix)	0~50	0~100	0~100
User defined	100	100	100
Resolution			
Refractive index	0.0001	0.0001	0.00001
Sugar (°Brix)	0.1	0.1	0.01
Accuracy			
Refractive index	±0.0001	±0.0001	±0.00005
Sugar (°Brix)	±0.1	±0.1	±0.04
Precision (reproducibility)*			
Refractive index	±0.00005	±0.00005	±0.00001
Sugar (°Brix)	±0.05	±0.05	±0.01
User scale library	20+ pre-programmed scales including HFCS(3), Sugar(4), Honey, NaCl, Wine Must(5), Urine SG(3), Glycol(2), Urea, FSI and more; plus customer programmable user scales via PC.		

Food & Beverage Benchtop Refractometer RFM 300 Series



Features

- 4" High definition display with robust push-button keypad for factory use
- Flat prism surface for easy-cleaning
- Wide beam scan for non-homogenous samples
- Three decimal place Brix precision* (6 d.p. RI)
- RFID user clearance
- Supports FDA regulation 21 CFR Part 11
- PHR-MEAN Method
- USB & Ethernet connectivity

The RFM300-M is identical in features to the recently launched RFM300-T Series in all aspects except for its tactile keypad. Incorporating wide beam optics and one of the flattest prism platforms on the market, RFM300-M Series refractometers are capable of measuring non-homogenous samples such as fruit juice with pulp, opaque chemical compounds and emulsions that are normally difficult to read with optical refractometers or those digital refractometers that do not address the need to measure "difficult samples."

Special application models

Description	RFM330-MR	FM340-M
Scales		
Reflective index	1.32~1.58	1.32~1.58
Sugar (°Brix)	0~100	0~100
User defined	100	100
Resolution		
Reflective index	0.00001	0.000001
Sugar (°Brix)	0.01	(selectable up to 6 d.p.) 0.01/0.001 (selectable up to 3 d.p.)
Accuracy		
Reflective index	+/-0.00005	±0.00002 (1.32~1.38 RI)
Sugar (°Brix)	+/-0.004	±0.00004 (1.38~1.58 RI) ±0.010 (0~30 °Brix) ±0.030 (30~100 °Brix)
Precision (reproducibility)*		
Reflective index	+/-0.00001	±0.000005 (6 d.p.)
Sugar (°Brix)	+/-0.01	±0.005 (3 d.p.)

RFM Flow Series



Cell volume (including nozzle)	ml	0.6	1.2	1.2	0.6
Flushing Volume	ml	-	-	50~100	-
Sample Inlet Tubing Bore	mm	2	4	-	2
Sample Inlet/Waste Nozzle Outer Diameter	mm	3	6	6	3
Sample Waste Tubing Bore	mm	2	4	6	2
Sample Pressure (max.)	bar	2	2	-	2
Chamber Material		Polyacetyl or PEEK (RFM990)			
Nozzle Material		316 Stainless Steel			
Sealing Ring		Silicon or Chemraz® (RFM990)			
Connections		Pushfit			¼" UNF



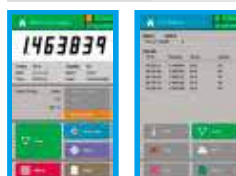
RFM300 series refractometers are considered by many leading companies as the ultimate instrument for installation in demanding factory environments, as well as for use as a primary quality control tool. Since its original launch in 1992, over 5,000 models have been installed across the globe, and following a complete re-design, the RFM300 series of refractometers still offers all the original design attributes but with a wider refractive index range, Peltier temperature control and a more versatile software structure.

Model	RFM330-T	RFM340-T
Measurement range	Refractive index: 1.32~1.58 Sugar content (°Brix): 0~100 User-defined: 100	1.32~1.58 0~100 100
Resolution	Refractive index: 0.0001 Sugar content (°Brix): 0.1	0.000001 0.01/0.001
Accuracy	Refractive index: +/-0.00005 Sugar content (°Brix): +/-0.04	±0.00002 (1.32~1.38 RI) ±0.00004 (1.38~1.58 RI) ±0.010 (0~30 °Brix) ±0.030 (30~100 °Brix)
Reproducibility	Refractive index: +/-0.00001 Sugar content (°Brix): +/-0.001	±0.000005 ±0.005
Sample interval	Min 4 sec	
Methods	20 or more	
Interface	3xUSB(A), 1xUSB (B), 1xEthernet, 1xRS232	
Power	AC100~240V, 50/60Hz	



Featuring a new touchscreen display and wide measuring range up to 1.70 RI and capable of measuring to six decimal places, the RFM900-T Series refractometers are ideally suited for use in the chemical, petrochemical, pharmaceutical, flavours and fragrance industries as well as for academic research. The RFM900-T series of refractometers combine the latest opto-electronic principles with durability and ease of use. RFM900-T refractometers feature RFID (Radio Frequency Identification) that allows users to identify themselves by simply swiping a tag across the top of the instrument.

Model	RFM960-T	RFM340-T
Measurement range	Refractive index: 1.30~1.70 Sugar content (°Brix): 0~100 User-defined: 100	1.30~1.70 0~100 100
Resolution	Refractive index: 0.0001 Sugar content (°Brix): 0.1	0.000001 0.01/0.001
Accuracy	Refractive index: ±0.0001 Sugar content (°Brix): ±0.1	±0.00002 ±0.02
Reproducibility	Refractive index: ±0.00005 Sugar content (°Brix): ±0.05	±0.000005 ±0.005
Sample interval	Min 4 sec	
Methods	20 or more	
Interface	3xUSB(A), 1xUSB (B), 1xEthernet, 1xRS232	
Power	AC100~240V,50/60Hz	



Abbe60 Refractometer



More stringent requirements of quality control and, in some cases, changing legislation, mean that greater accuracy is being demanded of refractometers. The Abbe 60 Direct Reading models, available in two measuring ranges, have been designed to meet these requirements.

The latest designs incorporate an externally mounted LED light source for sample illumination.

Abbe5 Refractometer



The Abbe 5 is an affordable refractometer ideally suited for use where a wide refractive index measurement range is required such as in small contract laboratories or applications where sample throughput is relatively low.

Range	1.30~1.70 RI 0~95 °Brix
Resolution	0.0005 0.25 °Brix
Operating Temperature	5~70 °C
Temperature Resolution	0.1 °C
Temperature Accuracy	±1 °C
Storage/Ambient Temperature	5~40 °C / 5~95 °C
Power Source	1 x LR44 alkaline 1.5V button cell. Approx. life 12-months continuous usage

DO & BOD
pH · ORP ·ISE
MULTI · EC
Photometry
Piston Burette
Titration
Viscosity
Refractometer
Polarimeter
Temp · Humid · Press
Oil · Salinity
TOC · ACA
Hotplate · Stirrer

Polarimeter (no Peltier control) ADP 430



The ADP430 is a dual scale, fully automatic polarimeter designed for use in many applications that require measurement of optical rotation. The instrument is housed in a rugged chemical-resistant case, making it suitable for use in factory environments as well as in the laboratory. Standard, jacketed and flow type tubes may be used, possibly requiring the use of specially suited slotted lids.

Features

- Methods (Specific Rotation, Purity, Inversion etc.)
- ± 0.01 °A accuracy
- ± 0.002 °A precision (reproducibility)
- Color 4" (10cm) display
- Continuous and NEW single-shot read modes
- Save & output results
- RFID user clearance

Scale

Angular Degrees (°A) : -355 to +355
Int. Sugar Scale (°Z) : -225 to +225
User Scales/Methods : 100

Resolution

Angular Degrees (°A) : 0.01/0.001 (selectable)

Accuracy

Angular Degrees (°A) : ± 0.010
Int. Sugar Scale (°Z) : ± 0.030

Temperature Control

None or external waterbath

Measuring Range

5-40 °C

Sensor Accuracy

± 0.1 °C

Stability

Waterbath dependent

Polarimeter (with Peltier control) Temperature control ADS 450+



The ADP450+ is a single wavelength, high accuracy polarimeter suitable for use in many applications, and is especially suited for use in pharmaceutical laboratories where compliance with Pharmacopoeia is required.

Features

- Multiple scale
- Highest accuracy (± 0.01 °A)
- Conforms USP/EP/BP
- MEAN Method
- Full color 4" (10cm) display
- Continuous and NEW single-shot read modes
- PELTIER TEMPERATURE CONTROL (Xylem patented technology)

Scale

Angular Degrees (°A) : -355 to +355
Int. Sugar Scale (°Z) : -225 to +225
User Scales/Methods : 100

Resolution

Angular Degrees (°A) : 0.01/0.001 (selectable)

Accuracy

Angular Degrees (°A) : ± 0.010
Int. Sugar Scale (°Z) : ± 0.030

Temperature Control

Patented XPC Technology

Measuring Range

15-35 °C

Sensor Accuracy

± 0.1 °C

Stability

± 0.2 °C

Stability Checks

None/delay or SMART

Saccharimeter Meter ADS400 series (ATC/ Peltier control), 589nm or NIR



Features

- ATC or Patented XPC Peltier
- ICUMSA and Tropical Scale ATC
- Funnel package available
- * Onboard Purity
- User audit trail
- USB "Back-up & Clone"
- * Low maintenance LED

A Saccharimeter is a polarimeter that has been configured to display the optical rotation in the International Sugar Scale (ISS - °Z) for operation in the sugar processing industry as defined by the International Commission for Uniform Methods of Sugar Analysis (ICUMSA). Latest specification opto-electronics allows measurement of samples with low transmittance even at sodium wavelength; however, for applications where the use of lead acetate is prohibited, the near infrared ADS400 NIR series Saccharimeter and Celite® filtrate offers supreme performance.

Scale

-225 ~ +225 °Z

Resolution

0.01°Z

Accuracy

ADS400 : ± 0.03 degree Z

Reproducibility

ADS400 series : 589nm (± 0.005)
NIR (± 0.01)

Output

RS232C 1 Channel

Wave length

589.3 nm

Power

90-250v, 50/60Hz

Multi-wavelength Polarimeters ADP600 Series



Available as single, dual and multiple wavelength derivatives not only covering the visible spectrum, the new ADP600 Series of Peltier temperature controlled polarimeters are capable of measuring optical rotation to four decimal places in the highly sensitive ultra-violet region. This capability makes the instrument particularly suited for use by scientists wishing to measure chiral compounds and other optically active substances in the chemical, pharmaceutical and food sectors as well as for use in academic research.

Features

- Single, dual & multiple wavelength models
- Four decimal place Resolution
- Peltier temperature controlled
- High definition 7.4" touch-screen display

Range (°A)	± 89 (-355 to +355 via Method selection)	
Resolution	Optical rotation (°A) : 0.0001°A Sugar content (°Z) : 0.01°Z (I.S.S.)	
Accuracy	± 0.003 (@546 & 589nm) / ± 0.005 (@325, 365, 405 & 436nm)	
Temperature Range	15-35°C	
Temperature Control / Accuracy	Peltier / ± 0.2°C	
Temperature Compensation	None, sugar, quartz, user defined	
Methods	Specific Rotation, % Concentration, % Invert Sugar, % Inversion (A-B)	
Weight & dimensions	(L) 78cm, (W) 36cm, (H) 32cm, (Weight) 25.5Kg	

Polarimeter Tubes Polarimeter Tubes



Bellingham + Stanley polarimeter tubes are manufactured to high quality standards conforming to ICUMSA recommendations and are compatible with most makes of polarimeter. Tube ends are precision ground with windows made from specially selected low strain glass in order to achieve highest accuracy optical rotation measurement.

Code	Standard Glass - 8mm	Length
35-29		100
35-30	Bubble type - to clear bubble from field of view	200
35-28	Most suited to model D7	50-200
35-46		100
35-47	Centre fill - for easy filling and placement of ADP temperature sensor	200
35-45		50-200
35-57		100
35-58	Cup - funnel shaped centre fill for viscous samples	200
35-56		50-200
35-10	Metal end - centre fill for aggressive chemicals and solvents	100
35-11	Volume: 5.02ml/100mm.	200

Volume: 5.02ml/100mm.

Code	Flow & temperature control - 8mm	Lid code	Length
36-57	Funnel flow-through tube	37-012	100
36-58		37-011	200
36-67	Continuous flow-through tube	37-012	100
36-68		37-011	200
36-77	Centre fill tube	37-010	100
36-78		37-009	200

All lengths in millimetres. Volumes in millilitres. All collar sizes 30mm diameter. For use with ADP/S models, polarimeter tubes figure 5 to 8 require slotted lids.

Quartz Control Plates (QCPs)



Bellingham + Stanley offer a choice of Quartz Control Plates (QCP) for verifying and calibrating polarimeters. QCPs are made to the highest standard and may be supplied with an optional Certificate of Calibration, showing traceability to PTB.

Certificate	UKAS (ISO17025)
Best measurement Uncertainty (k=2)	±0.017 °Z ±0.006 °A
Shelf life	Certify Regularly
Traceability	ICUMSA PTB



Biosensor technology



The key to generating analyte-specific results in 60 seconds or less is YSI's innovative biosensor technology. Using the inherent specificity of enzymes for a single target analyte, YSI's proprietary immobilized enzyme electrodes allow a rapid, accurate, and largely interference-free measurement to be made in about a minute. The unique fluidics and chamber design resist clogging - even at high cell densities.

The YSI 2900 Series is a flexible, modular platform with a range of configurations, options, and accessories to meet your lab needs. The base platform is the YSI 2900D. Also available is the YSI 2950 platform, configurable with up to 3 sensor modules capable of measuring up to 6 chemistries. Module 3 may be configured for biosensor or ISE measurements.

Fully modular and with a range of upgrades available, the YSI 2900 series feature an intuitive graphical user interface and a touch screen display. This makes 2900 Series analyzers the easiest to use and most cost effective way to measure a wide range chemistries in a number of different applications:

2900 Biochemistry Analyzer



The YSI 2900 features an intuitive graphical user interface, a USB port for data retrieval, and the ability to measure samples from a variety of sample holders including 96 well plates and microcentrifuge tubes, making 2900 series analyzers the easiest to use and most cost effective way to measure the following chemistries in a wide range of application areas:

- Glucose
- Lactate
- Glutamine
- Glutamate
- Xylose
- Ethanol
- Methanol
- Sucrose
- Galactose
- Lactose
- Choline
- Glycerol
- Hydrogen peroxide

Benchtop: Yes
Certifications: RoHS, ETL, CE
Compliance: 21 CFR, Part 11 GAMP® 5
Connectivity / Communications: Ethernet, USB
Graphic Display: Yes
Measurement Range: Glucose: 0.05-25 g/L, Lactate: 0.05-2.70 g/L, Glutamate: 15-1460 mg/L, Glutamine: 30-1169 mg/L, Glycerol: 0.75-40 g/L, Xylose: 0.5-30 g/L, Choline: 5-450 mg/L, Hydrogen Peroxide: 3-300 mg/L, Sucrose: 0.1-25 g/L, Ethanol: 0.04-3.2 g/ L, Ethanol-HC: 0.5-40 g/L, Methanol: 0.1-2.5 g/L, Lactose: 0.05-25 g/L, Galactose: 0.1-25 g/L
Parameters Measured: Glucose, Lactate, Glutamate, Glutamine, Glycerol, Xylose, Choline, Hydrogen Peroxide, Sucrose, Ethanol, Methanol, Lactose, Galactose

2950D Biochemistry Analyzer



YSI has earned a reputation as the Gold Standard in bio-analytical instruments with highly accurate sensors and rapid results. The key to generating analyte-specific results in 60 seconds or less is YSI's innovative biosensor technology. Using the inherent specificity of enzymes for a single target analyte, YSI's proprietary immobilized enzyme electrodes allow a rapid, accurate and largely interference free measurement with the capability to measure 6 chemistries.

- Glucose
- Lactate
- Glutamine
- Glutamate
- Ammonium
- Potassium
- Ethanol
- Methanol
- Sucrose
- Galactose
- Lactose
- Choline
- Glycerol
- Hydrogen peroxide

Benchtop: Yes
Certifications: RoHS, ETL, CE
Compliance: 21 CFR, Part 11 GAMP® 5
Connectivity / Communications: Ethernet, USB
Graphic Display: Yes
Measurement Range: Glucose: 0.05-25 g/L, Lactate: 0.05-2.70 g/L, Glutamate: 15-1460 mg/L, Glutamine: 30-1169 mg/L, Glycerol: 0.75-40 g/L, Xylose: 0.5-30 g/L, Choline: 5-450 mg/L, Hydrogen Peroxide: 3-300 mg/L, Sucrose: 0.1-25 g/L, Ethanol: 0.04-3.2 g/ L, Ethanol-HC: 0.5-40 g/L, Methanol: 0.1-2.5 g/ L, Lactose: 0.05-25 g/L, Galactose: 0.1-25 g/L, Ammonium 10-500mg/L ; Potassium 20-1000mg/L
Parameters Measured: Glucose, Lactate, Glutamate, Glutamine, Glycerol, Xylose, Choline, Hydrogen Peroxide, Sucrose, Ethanol, Methanol, Lactose, Galactose

Glucose/Lactate Biochemistry Analyzer YSI 2500 Biochemistry Analyzer



- Cost effective alternative to the 2900D Analyzer
- Analyte-specific results in 60 seconds or less
- Proprietary immobilized enzyme electrodes
- Unique fluidics resist clogging
- Trusted measurement technology
- Automated sample handling
- Intuitive graphical user interface
- USB port for data retrieval

Benchtop: Yes

Certifications: RoHS, ETL, CE

Graphic Display: Yes

Measurement Range:
Glucose: 0.05-25 g/L, Lactate: 0.05 to 2.70 g/L

Operating Temperature: 15 to 35°C

Precision:
Application specific, typical CV <2%

Parameters Measured: Glucose, Lactate

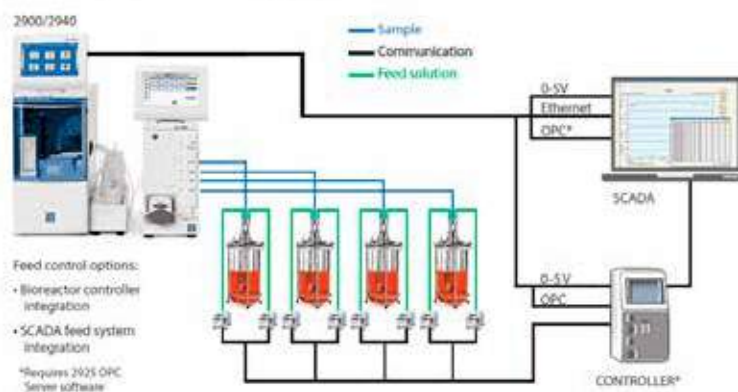
Memory: Yes

2940-2980 Multi-Channel Online Monitor



For multiple and parallel bioreactor systems, our 4-channel and 8-channel sampling systems provide many simple and reliable online monitoring and control solutions for your bioreactor processes. Closed-loop monitoring and control capabilities are easily achieved for any scale of operation or type of bioreactor, including single-use systems.

Multiple Connectivity Options Include Analog (0-5V), Ethernet and OPC



YSI 2940 and YSI 2980



- Automated, aseptic sampling of up to 8 vessels
- Monitor up to 6 chemistries
- Analytical results in 60 seconds for each chemistry
- Simultaneous online monitoring and 96-well plate sampling
- Automated cleaning cycle
- Autoclaveable components
- CIP and SIP compatible
- Touchscreen, icon-driven HMI for easy viewing and menu navigation
- Connectivity options for SCADA, DAS, LIMS and feed-control systems
- Remote access and control via web-based server
- OPC server option



Data Loggers & Bowie Dick Test

Temperature / Humidity / Pressure / Conductivity Loggers

EBI 16 Alternative Bowie & Dick Test



In accordance with DIN EN 285 / ISO 17665 / ISO 11140-4 - The Ebro EBI 16 forms together with the evaluation software Winlog.med an easy to use and reliable electronic measurement system.

This allows implementing a comprehensive routine control of steam sterilizers by means of the alternative Bowie&Dick-Test according to EN 285 / DIN EN ISO 17665. In addition to checking the penetration of steam, the relevant sterilization parameters are also checked. A vacuum test can also be carried out with this device.



Operating Temperature and Pressure

0°C to 150°C, 1 mbar to 4,000 mbar

Resolution

0.01°C, 1 mbar

Accuracy

± 0.1°C, ± 15 mbar

Sampling Rate

1sec

Calibration

Factory calibration certificate

Battery

Lithium cell, 3.6V, user replaceable

Data Memory

6,750 measurement values

Weight & Dimensions

Approx. 500g (incl. battery),
D90mm x H150mm

Sensor

Temperature: Pt 1000
Pressure: Piezoresistive

EBI 12 Data Loggers - Temperature/Pressure/Humidity/Conductivity

-ebro-



EBI 12 Series are Logger systems for Process monitoring, Routine control and Validation. The new generation series are highly accurate temperature, pressure, humidity and conductivity data loggers for thermal process control.

Features

- High quality stainless steel housing
- Application range from -90 °C to 150 °C
- High temperature accuracy up to 0.05 °C
- Extended temperature measurement range -200 °C to +400 °C
- Pressure measurement up to 4,000 mbar
- Precision pressure measurement 0.1 mbar
- High pressure accuracy up to 0.25 mbar
- Humidity measurement from 0% rH to 100% rH
- Conductivity measurement 1 to 2,000 µS/cm
- Radio mode for real-time monitoring
- ATEX approved
- Full compatibility Interface EBI IF-100, EBI IF-150 and EBI IF-200
- Full compatibility to Winlog software



RED LINE	BLUE LINE
<ul style="list-style-type: none"> • Temperature data logger with external probe less than 2mm diameter • Data Logger with additional units • Special process logger 	All other temperature data loggers
Radio Mode	
Loggers can transfer data during the measurement process	Not possible
Total Memory Capacity	
100,000 values	27,000 values

EBI 12-T22X



Features

- 1 external temperature probe, Ø 1.5 mm
- Needle length 250mm
- Measurement Range
- EBI 12-T220: -200 °C ... +200 °C
- EBI 12-T220-EX: -40 °C ... +85 °C
- EBI 12-T221: -200 °C ... +400 °C
- Data Memory 100,000

General Specifications - EBI 12 T Series (Temperature)

Operating Temperature Logger	Measurement mode
-90 °C to +150 °C (-130 °F to 302 °F)*	<ul style="list-style-type: none"> • Endless measurement • Start / stop measurement • Measure upon start temperature • Start immediately until end of memory
Operating temperature: radio operation	Battery
-30 °C to +150 °C (-22 °F to 302 °F)	Lithium cell, 3.6 V, user replaceable
Time Accuracy	Sensor Material
<5 sec (24hr)	Pt 1000, Class A
Accuracy	Weight & dimensions
±1.5 °C (-200 °C to -85 °C)* ±0.5 °C (-85 °C to -40 °C)* ±0.2 °C (-40 °C to 0 °C)* ±0.1 °C (0 °C to +120 °C)* ±0.05 °C (+120 °C to +140 °C)* ±0.1 °C (+140 °C to 150 °C)* ±0.5 °C (+150 °C to +250 °C)* ±0.8 °C (+250 °C to +400 °C)*	Approximately 110 g ** 48 mm x 24 mm**
Resolution	Houseing Material
0.01 °C	Stainless Steel (SUS316L)
Memory	Resolution
Red line: 100,000 Blue line: 27,000	-30 °C to 125 °C +140 °C 1 hr, +150 °C 30 min
	Waterproof
	IP68

* Deviating specifications can be found in the product descriptions.

** Dimensions and weight may be different depending on the type.

EBI 12-TP231



Features

- 1 external temperature probe, Ø 1.5 mm
- 1 internal pressure sensor with Luer-Lock Connection
- Needle length 40mm
- Measurement Range
- EBI 12-TP231: 0°C to 150°C
- EBI 12-TP231-EX: 0°C to 85°C
- Data Memory 100,000

General Specifications - EBI 12 TP Series (Temperature and Pressure)

Operating Temperature: pressure logger
0°C to +150°C*
Accuracy: temperature
±1.5 °C (0°C to 120°C)* ±0.05 °C (120°C to 140°C)* ±0.1 °C (140°C to 150°C)*
Accuracy Pressure
±10 mbar (50 mbar to 150 mbar) ±10 mbar (2,050 mbar to 2,250 mbar) ±10 mbar (3,000 mbar to 3,250 mbar) ±15 mbar (for the remaining measurement range)
Resolution: temperature
0.01°C
Resolution: pressure
1 mbar
Data Memory
Max. 100,000 measurements (total)
Sensor: temperature
Pt 1000, Class A
Sensor: pressure
Piezoresistive pressure sensor (temperature compensated)

Data Logger Applications



FOOD APPLICATIONS

- Autoclaves, sterilizers, pasteurization processes
- Continuous fryers
- Lyophilization
- Hydrostatic retorts
- Refrigerators, freezers, cooling rooms
- Smokehouse
- Cooker, cooler (reel and spiral)



MEDICAL APPLICATIONS

- Steam sterilization
- Washer disinfectors, bedpan washers
- H₂O₂, LTSF and EtO sterilization
- Depyrogenation, heat tunnel
- Incubators
- Refrigerators, freezers, cooling rooms
- Stability chambers



PHARMACEUTICAL APPLICATIONS

- Steam H₂O₂, LTSF and EtO sterilization
- Washer disinfectors
- Depyrogenation, heat tunnel
- Incubators
- Refrigerators, freezers, cooling rooms
- Climatic test chambers
- Stability chambers

FEATURED DATA LOGGERS



EBI 12-T100

- For process monitoring during convenience food production
- For routine control in bedpan washers
- For temperature mappings
- For measuring raw material storage



EBI 12-T23X

- Ideal for use in canning for pasteurization control
- Available in various lengths (50mm/75mm/100mm/150mm)



EBI 12-TP231

- Washer disinfectors
- Sterilizers
- EtO sterilizer (ATEX type)



EBI 12-TC230

- In processes like washer disinfectors, the measurement of conductivity in the last dishwasher is required. This is reasonably done in the running process without any interruption



EBI 12-T421

- In oven (protected by Thermal Isolation Box)
- In washer disinfectors



EBI 12-TPX90

- High precision pressure logger
- H₂O₂ sterile process requires a very precise pressure measurement
- Works with pressures down to 1 mbar
- Not for use in steam sterilizer

Complete Validation Set



For the validation of steam sterilizers according to ISO 17665. This set can individually be expanded or compiled yourself from one or more data loggers (EBI 11 or EBI 12), the appropriate interface and corresponding TUV certified software. Contact us for more information.



SL 3001 for Benchtop Steam

- 1 x EBI 12-TP453 Temperature / pressure data logger with AL 101 silicone protection box
- EBI IF 200 4-port Interface with USB connection and antenna
- Software Winlog.validation
- Carrying case "SYSTAINER"



SL 3111 for Large Steam Sterilizer

- 5 x EBI 12-T441 Temperature data loggers
- 1 x EBI 12-TP 226 Temperature / pressure data logger with AL 101 silicone protection box
- EBI IF 200, 4-port Interface with USB connection and antenna
- Winlog. validation evaluation software
- Carrying case "SYSTAINER"



For temperature and pressure measurements in tight spaces, ebro offers the EBI-11 mini data loggers. Many configurations are available to suit your application, including data loggers with internal sensors, rigid metal probes, bendable metal probes, Luer-Lock connection or threaded connection versions.

Scale	-30 °C~ +150 °C
Accuracy	±0.2 °C (-30 °C to 0 °C) ±0.1 °C (0 °C to 150 °C)
Resolution	0.01 °C
Sample interval	1 sec-24 hrs
Memory	15,000
Operation temp range/hours	-30 °C to 150 °C)
Temperature sensor	Pt 1000, Class A
Measurement mode	<ul style="list-style-type: none"> • Endless measurement • Measurement start / stop time • Measure upon start time • Start immediately until end of memory
Battery	Lithium battery cell 2 x BR1225A. 3V, replaceable
Dimensions & Weight	(Ø)16.5 mm x (H)22 mm, 45 g
Material	Stainless Steel (V4A)
Waterproof	IP68



Bendable metal probe



Rigid metal probe



Integrated (pressure) sensor



Luer-Lock connection



M5 thread connection

EBI 11 Mini Data Loggers EBI-11-TP110 / -P100 / -P111



The EBI 11 Mini Data Loggers are suitable not only for validation monitoring but can also be used for routine control monitoring.

Applications

- For tight spaces, e.g. in small steam sterilizers, bottles, cans or bags
- Validation of steam sterilizers and autoclaves
- Validation of washer-disinfectors and washer-disinfectors for endoscopes Validation at canning etc.
- Pressure measurement up to 10 bar routine control monitoring.

Scale	Temp : 0 °C to 150 °C Pressure : 0 to 10,000 mbar
Accuracy	Temp : ±0.1 °C Pressure : ±15 mbar (0 mbar~4,000 mbar) : ±20 mbar (4,000 mbar~10,000 mbar)
Resolution	Temp : 0.01 °C Pressure : 1 mbar
Sensor	Temp : Pt 1000, Class A Pressure: Piezoresistive (temp compensated)
Max. Operating Pressure	20 bar

DO & BOD
pH · ORP · ISE
MULTI · EC
Photometry
Piston Burette
Titration
Viscosity
Refractometer
Polarimeter
Temp · Humid · Press
Oil · Salinity
TOC · ACA
Hotplate · Stirrer

Cold Chain Temp Loggers

Online & USB portable Loggers

Standard Data Loggers EBI 20-T1 / -TE1 / -TF / -TH1

-ebro-



EBI 20-TF

With a memory capacity of 40,000 measurements the easy to use EBI 20 data loggers are suitable for the continuous documentation and monitoring of temperature and humidity. All EBI 20 data loggers are delivered with a factory calibration certificate and a user replaceable battery. The data loggers are particularly attractive because of their excellent price-performance ratio.

Features

- Data logger versions for temperature and humidity measurements available
- With internal and external temperature probes
- Very easy to use
- Excellent price-performance ratio

Resolution

Temperature: 0.1 °C
Humidity (EBI 20-TH1): 0.1% rH

Measurement Range

EBI 20-T1/TE1: -30°C to 70°C
EBI 20-TF: 0°C to 100°C
EBI 20-TH1: 0% rH to 100%rH

Accuracy

EBI 20-T1/TE1: ±0.5 (-20°C to 40°C)
±0.8 °C for the rest
EBI 20-TF/TE1: ±0.5 (50°C to 100°C)
±1 °C for the rest
EBI 20-TH1: ±0.5 (-20°C to 40°C)
±0.8 °C for the rest; ±3rH (10% rH to 90% rH)

Battery lifetime

Up to 24 months at a sampling rate of 15 minutes at 25°C

Weight & dimension

69(L) x 48(W) x 22(H) mm
Approximately 45 g

Wireless Data Logger System EBI 25-T / -TE / -TX / -TH

-ebro-



EBI 25-TH

The EBI 25 system for wireless monitoring of temperature, humidity and other measurements assures that perishable goods are produced and stored at the right conditions at all times. Other measurements can be integrated using Modbus over IP.

Features

- Radio data logger system for temperature and humidity measurements
- Other measurements can be integrated using Modbus over IP or other protocols

Interface including antenna



IF 400

Resolution: Temperature

0.1 °C (-99°C to 199.9°C)
1°C for the rest

Resolution: Humidity (only humidity data loggers)

0.1 % rH

Total Memory

Capacity 288 measurement values (per channel)

Sampling rate

1 minute to 24 hours, adjustable

Measurement Range

EBI 25-T: -30°C to 60°C
EBI 25-TE: -40°C to 85°C
EBI 25-TX: -200°C to 199.9°C
EBI 25-TH: -30°C to 60°C; 0% rH to 100% rH

Battery

3.6 V lithium (user replaceable)

Battery lifetime

Up to 2 years, depending on measurement and transmission rate

Storage temperature

-40°C to 85°C

Operating temperature

-30°C to 60°C

Measurement mode

Endless measurement

Housing material

ABS

Weight

Approximately 45 g



AL 251



EBI 2 AB-2 Alarmbox

- Collects and stores the data of all connected EBI 25 data loggers
- Connection of up to 50 loggers per interface possible
- Stores up to 576 measurements per logger
- Direct connection of any number of interfaces to a PC or the network
- Audible alarm (with optional alarm box)

Multi-Channel Temperature Data Logger EBI 40-TC

-ebro-



EBI 40-TC-01



EBI 40-TC-02

The EBI 40 Multi-Channel Temperature Data Logger records temperatures during process monitoring and validation. Current measurement values and the measurement curve can be read on the multi-colored TFT display. The thermal insulation using the thermo isolation box allows the use of the data logger at very high temperatures. The EBI 40 is suitable for the connection of up to six or twelve thermocouple probes.

Measurement range	-200 to 1,200 °C	Storage temperature	0 °C to +70 °C
Accuracy	±0.5 °C (at 25 °C)	Memory	20,000 measurements per channel (max. 240,000 measurements)
Resolution	0.1 °C	Measurement mode	<ul style="list-style-type: none"> • Endless measurement immediately • Measure immediately until end of memory • Start / stop measurement
Channels	6 or 12 temperature channels	Display	TFT-display 3.5" (324 x 240 Pixel)
Sampling rate	Adjustable from 0.1 sec to 24 hrs	Dimensions	140(L) x 118(W) x 35(H) mm
Sensor	Thermocouple Type K or Type T / SMP connection	Housing material	ABS + PC
Operating temperature	0 °C to 60 °C	Protection class	IP 40

* The accuracy of the used probe adds to the accuracy of the device. E.g. Probes with class 1 of IEC 584 have ±0.5 °C between -40°C to 125°C

Multi-use USB Data Logger EBI 300 / 310

-ebro-



The EBI 300 and EBI 310 PDF data loggers are suitable for multi-use. The easy to use data loggers with USB connection monitor the temperature and/or humidity during transport and storage of sensitive goods like medicine, food, serums etc. Measurement reports are created automatically as PDF files when you connect the logger to a PC.

Model	EBI 300	EBI 310
Measurement Range	EBI 300: -30 °C to 70 °C EBI TE: -35 °C to 70 °C (external); -30 °C to 70 °C (internal) EBI TH: -30 °C to 70 °C; 0% rH to 100% rH (humidity)	EBI 310: -30 °C to 75 °C EBI 300 TE: -200 °C to 250 °C (external); -30 °C to 75 °C (internal) EBI 300 DI: -85 °C to 50 °C (external); -30 °C to 75 °C (internal) EBI 300 TH: -30 °C to 75 °C; 0% rH to 100% rH (humidity) EBI 300 TX: -200 °C to 400 °C (external); -30 °C to 75 °C (internal)
Accuracy	±0.5 (-20°C to 40°C); ±0.8 for the rest	±0.2 °C (-30°C to 30°C); ±0.5 for the rest
Sensor (Temp./Humidity)	NTC / Capacitive	PT 1000 / Capacitive
Memory	40,000 measurements	120,000 measurements
LED lamp	Yes (Red)	Yes (Red, Yellow)
Resolution	0.1 °C	0.1 °C
Sampling rate	1 min to 24 hrs	1 s to 24 hrs

* Programmable at www.ebi300.com, no special software for programming and readout required



- Data integrity
- Conforms with FDA 21 CFR Part 11,
- DIN EN 12830 and ATP
- The data loggers help you to comply with GMP and VO (EG) 37/2005
- Free firmware updates at your place via software



EBI 330-T30
Single-Use
PDF Data Logger available

- Tamper proof
- Un-erasable memory
- Automatic PDF report generation
- Visual indication of alarm status



FOM Oil Monitor FOM 330

-ebro-



Food Oil Quality Measurement
FOM 330 Food Oil Quality Set*
Up to 10% oil savings through accurate determination of frying oil quality.

Features

- Determination of the frying oil quality in the range of 0 % to 40 % TPC
- LED (green/yellow/red) shows the right point of time to change the oil
- Simple one-button operation
- Rugged sensor protection
- Fast cleaning with for example hot water or with a cloth
- Long life user replaceable battery
- Calibration certificate included
- Impact resistant, waterproof housing (IP 67)

Measurement variables

Total polar materials (% TPM)
Temp (°C)

Scale

TPM: 0~40%, Temp: 50 °C to 220 °C

Accuracy

TPM: ±2%, Temp: ±1 °C

Resolution

TPM: 0.5%, Temp: 0.1 °C

Temperature range

50°C to 200 °C

Waterproof

IP67

Weight & dimensions

304(W) x 54(D) x 22(H) mm, 200g

SSX210 Salt Meter Set SSX 210

-ebro-



SSX210 Salt Meter Set with gold-plated electrodes probe.

Product description

- Determines relative salt content of foods
- Meat, sausage, ham, cheese, salad
- Assures constant taste
- Easy handling
- Robust and impact-resistant
- Fixed probe



Scale

0~100

Resolution • Accuracy

1, ±1 Digit

Operating temperature

10 to 40 °C

Sample rate

1 to 15 Sec

Waterproof

50°C to 200°C

Waterproof

IP54

Weight & dimensions

100(W) x 46(D) x 25(H) mm
200g

Refrigerator Thermometer - TRACEbro 3x0 / 4x0

-ebro-



Min/Max Thermometer with one or two external probes. To monitor the sample temperature in the laboratory, but also in microbiological research facilities, a thermometer with minimum and maximum value display is required. To simplify the process and for easy monitoring in daily use in the field of application, the thermometer simultaneously displays the current measured value and Min / Max. The employee has all the information at a glance and can intervene directly if necessary.

Description	TRACEbro310	TRACEbro320	TRACEbro410	TRACEbro420
	1 internal / 1 glycol bottle	1 internal / 1 bullet probe	2 glycol bottles	2 bullet probes
Measurement range: Internal sensor	*-0 °C to 50 °C	*-0 °C to 50 °C	-	-
Measurement range: External probe	*50 °C to 70 °C			
Resolution	0.1 °C			
Accuracy	±0.5 °C (-20 °C to 40 °C); ±1.0 °C for the rest			
Cable length	3m			
Dimensions	100 x 110 x 23 mm			
Factory calibration certificate	-20 °C, 0 °C, 60 °C			

Fold-Back Thermometer TLC 750NFC, TLC 750i, TLC 750BT



TLC 750 NFC Dual HACCP Thermometer

The TLC 750 NFC has an infrared sensor for surface temperature measurement and a penetration probe for core temperature measurement. The display with backlight can be read from both sides. This combination of features is ideal for incoming goods inspections and storage monitoring. The TLC 750 NFC has a memory for up to 200 measurements. With one walkabout, all measurement locations can be handled. MyCCP is a Digital Food Safety Management System that allows for defining, managing, scheduling and controlling Food Safety processes.



HACCP Software MyCCP

TLC 700

- Wireless data transmission via Bluetooth Low Energy
- Detection of locations and users via NFC reader
- Wireless rechargeable battery
- Display with backlight for reading in dark environments
- Display can be upside down for reading from both sides



TLC 750 BT Dual Radio Thermometer



TLC 750i Dual Infrared/Fold-Back Thermometer

Measurement Range

-50 °C to 250 °C

Accuracy Infrared

- ±4°C at -50°C to -30.1°C
- ±2.5°C at -30°C to -18.1°C
- ±1.5°C at -18°C to -0.1°C
- ±1.0°C at 0°C to 65°C
- ±2.0°C or 2% at 65°C to 250°C

Accuracy Penetration Probe

- ±0.5°C at -30°C to 99.9 °C
- ±1°C or 1% for the rest

Resolution

0.1°C

Distance: Spot ratio

8:1

Dimensions

(L)169.5 x(W) 44 x(H) 23 mm (without probe), needle length = 100 mm

Weight

Approx. 140g

TFN 520-EX / 530-EX



TFX 422C / TFX 410-1



On the next pages you will find our re-released EX-thermometers of the TFN 5x0 series, together with accessories. The various probes, specifically examined for their aptitude for EX applications, allow for the measurement of temperature within potentially explosive areas.

Features

- Temperature measurement within potentially explosive areas:
- II 2G Ex ia IIC T4 Gb
- II 2G Ex ia IIIB T135 °C Db
- For environmental temperatures up to +60 °C
- Process and facility monitoring
- Examination in laboratories
- Usage during the production or examination of e.g. solvent-based products, fuels and gases



Due to the new German calibration law which became effective on January 01 2015, we were forced to stop the sales of the TFX 422 Laboratory Thermometer with PTB certification. The so called certification of conformity replaces the calibration by the measurement office. Our new Conformity Certified Laboratory Thermometer TFX 422C is the equivalent successor: same properties, same quality.

Features

- MIN/MAX and hold options
- High precision
- Approximately 5 years battery life time
- Waterproof (IP 67)



The device has been certified together with the EB 4401 food inspection case (please see page 167)

DO & BOD
pH · ORP · ISE
MULTI · EC
Photometry
Piston Burette
Titration
Viscosity
Refractometer
Polarimeter
Temp. · Humid. · Press
Oil · Salinity
TOC · ACA
Hotplate · Stirrer

Combustion Total Organic Carbon Analyzer 1080 TOC Analyzer



The 1080 TOC Analyzer processes aqueous samples for analysis of the total organic carbon (TOC), total inorganic carbon (TIC), and non-purgeable organic carbon (NPOC) content. Supporting USEPA-approved methods, Standard Methods, ASTM, DIN/ISO/CEN, and EU Methods the 1080 can analyze up to 300 samples per 24-hour period, depending upon the protocol employed, in excess of 100,000 samples per year.

Features

- Wide operational range (2 ppb~30,000 ppm)
- Supports TC/TIC/TOC/NPOC analysis techniques and standard measurements
- Parallel reaction chamber option available for high-throughput concurrent sample processing
- Patented* Smart Slide injector extends o-ring life and reduces maintenance

Operating principle

Heated sodium persulfate oxidation

Measurement Range

50 ppb C - 2,000 ppm C

Accuracy · reproducibility

+2% FS or 2% relative

Method compliance

USEPA, CEN, USP, EUP, ASTM, ISO, DIN, STD

Autosampler

Option

Power

115/230V AC, 50/60 Hz, 750VA max

Aurora 1030D TOC Analyzer Aurora 1030D



Experience two types of TOC analysis in one powerful instrument! Use the Aurora 1030D to analyze TOC through the proven heated persulfate wet oxidation technique or the high temperature combustion method. Both modes have distinct chamber features to ensure accurate and reliable results.

Features

- Wide operational range, 50 ppb C to 30,000 ppm C
- TC/TIC/TOC/NPOC/standard measurements
- Optional analysis module for total nitrogen (TNb)
- ACT II Dual Pack Advanced Combustion Technology reactor (patent-pending) that meets or exceeds requirements of USEPA, ASTM, and Standard Methods

Operating principle

High temperature (680 °C) catalytic combustion

Measurement Range

100 ppb C - 30,000 ppm C

Accuracy - Reproducibility

±2 % FS or 2 % relative, whichever is greater, 3.0 %

Method compliance

USEPA 415.1, Standard Method 5310B, USEPA 9060A, USEPA-DBPR, ISO 8245, EN 1484, ASTM D7573-09

Autosampler

88 position rotary autosampler designed to fit directly underneath Aurora 1030C analyzer

Power

100~240 VAC, 50/60 Hz, 950 W

Aurora 1030W TOC Analyzer Aurora 1030W



The Aurora 1030W TOC Analyzer uses the proven heated persulfate wet oxidation technique to analyze organic contamination levels in liquid samples. The instrument can be programmed and calibrated to analyze samples containing organic carbon at levels as low as 10 ppb and as high as 30,000 ppm.

Features

- Wide sample range from 10 ppb to 30,000 ppm
- High sample efficiency - Up to 300 samples daily
- Rinse function eliminates residue from previous sample preventing blanks and background contamination

Operating principle

Heated sodium persulfate oxidation

Measurement Range

10 ppb C - 30,000 ppm C

Accuracy - Reproducibility

±2 % FS or 2 % relative, whichever is greater, 3.0 %

Method Compliance

Standard Method 5310C, USEPA 415.3, USP <643> / EU 2.2.44, ASTM D 4779, ASTM D 4839, USEPA-DBPR, USEPA-SPCC, ISO 8245, EN 1484

Autosampler

88 position rotary autosampler designed to fit directly underneath Aurora 1030C analyzer

Power

100~240 VAC, 50/60 Hz, 950W



The FS 3700 Automated Chemistry Analyzer is an advanced continuous flow analyzer designed to improve laboratory productivity by automating wet chemistry test procedures.

OI Analytical validates the hardware configuration and performance of every method supplied with the FS 3700 analyzer providing users a total analysis solution. Methods for aqueous samples, soil or plant extracts are available to support environmental compliance monitoring, process optimization and research applications.

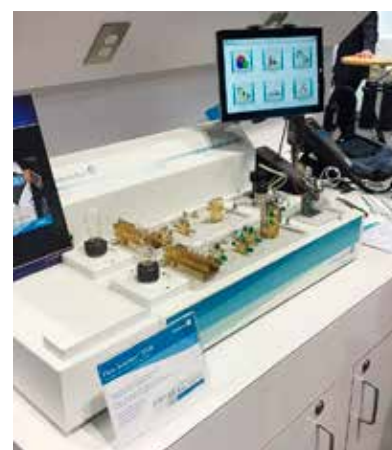
Interchangeable Chemistry Cartridges

The FS 3700 utilizes interchangeable, pre-assembled chemistry cartridges for maximum versatility and ease of use. Each chemistry cartridge is configured with all of the components needed to perform each validated analysis method. Just attach the pump tubing and detector flow cell and you are ready to go. The FS 3700 runs up to 2 channels simultaneously, each with its own cartridge, with additional channel configurations available. Modular, flexible hardware provides a great platform for research, in-house or proprietary methods.

Plug-in Detector Modules

The FS 3700 comes standard with two detector boards, each capable of supporting photometric, amperometric, ion-selective electrodes and third-party detectors out of the box. This provides additional flexibility to tailor methodology for research or quality control processes while utilizing fluorescence, flame photometric or other detectors. Refinements in detector design have improved signal-to-noise ratio and doubled sensitivity.

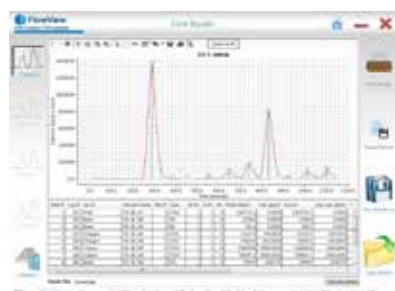
Analysis module
1-2 Channel
Analysis module dimensions
787(W) x 445(D) x 266(H) mm FS 3700 (90 Sample) 112(W) mm FS 3700 (360 Sample) 131(W) mm
Photometric detector
420-880 nm, with PEEK path lengths of 5-, 10- or 20-mm
Power
110VAC / 60 Hz - 230VAC / 50 Hz
Certifications
CE Safety EN 61010-1 EMC Immunity & Emissions EN 61326-1:2006



FlowView™ Powerful Software Capabilities FlowView™

The intuitive FlowView software is unparalleled in competitive systems. Designed for 32- or 64-bit Windows® operating systems, FlowView's improved user interface streamlines scheduling, operation and report generation from the FS 3700. The icon-driven user-interface simplifies navigation and helps new users quickly become proficient.

Item	Minimum	Recommended
OS	Windows 7 Professional, Enterprise-Ultimate (32-bit or 64-bit) (with SP1 or higher)	Windows 8.1 Professional -Enterprise
Free hard drive space	200 mb	500mb
Disk drive	CD-ROM	CD-ROM/DVD
USB channel	Must have an available USB port for each 3700 system	Must have an available USB port for each 3700 system



- DO & BOD
- pH · ORP · ISE
- MULTI · EC
- Photometry
- Piston Burette
- Titration
- Viscosity
- Refractometer
- Polarimeter
- Temp · Humid · Press
- Oil · Salinity
- TOC · ACA
- Hotplate · Stirrer

Hotplate / Stirrer & Accessories

Temperature Controllable Hotplate Stirrer SLR

SI Analytics



All functions can be viewed and monitored on the large, clear LCD display. The stirrer speed range from 100 to 1000/min and can be set in steps of 10/min. The heating power can be set in 24 steps and reaches an average heating output of 0.9 kW at step 24. If a Pt 1000 temperature sensor is connected which enable a temperature control between 25 °C to 200 °C.

Features

- Optional Pt 1000 temperature sensor
- Controllable stirrer speeds 100-1000 cycle per minute
- The glass-ceramics surface has a high infrared permeability and hence is exceptional economic saving energy and time.
- High-quality, powder-coated and nonsensitive stainless steel casing.
- Indicator LED for residual heat for safe operation.

Hotplate material

Glass ceramic

Temperature sensor connector

Yes, Pt 1000

Heater spec

Power : 900W
Heated zone : \varnothing 155 mm
Max temp : 550 °C

Stirrer spec

Max. rpm : 100~1,100 min-1
Setting accuracy: 10 min-1
Stirring volume : 10l

Power

115V,50/60 -230 V, 50/60

Weight & dimensions

240(W) x 370(D) x 85(H) mm
3.8 kg

Ceramic Glass Top Hotplate SLK 12

SI Analytics



SI Analytics hotplates SLK 12 are the optimum solution. The heating power can be adjusted in 9 steps and heats up to 1.7 kW (with extended hotplate step 2 and the 230 V version only).

Features

- The pore-free glass-ceramics surface (easy-to-clean) is highly resistant against chemical influences and temperature fluctuations
- The glass-ceramics surface has a high infrared permeability and hence is exceptional economic saving energy and time
- High-quality, powder-coated and nonsensitive stainless steel casing
- Indicator LED for residual heat for safe operation

Hotplate material

Glass ceramic

Hot plate area

330 x 300 mm

Heated zone

\varnothing 180 mm

Max Temp

Max 550 °C

Power

AC230V

Weight & dimensions

330(W) x 73(D) x 300(H) mm
4.5kg

Laboratory Hotplate Stirrer SLH / SLS / SLHS

SI Analytics



The compact design with a footprint of 205 x 260 mm allows the use on crowded laboratory tables or under fume hoods.

All three units feature a ceramic coated stainless steel plate highly resistant against strong acids and bases.

The stirrer is equipped with a speed control knob for a range of 60 - 500 rpm.

The heatplate of the SLH and SLHS has maximum power consumption of 500 Watts and is electronically controlled to prevent overcharging.

Two control LEDs on the front plate light up when heating and stirring function are on.

Hotplate material

Ceramic coated stainless steel plate

Hot plate area

190 x 190 mm

Stirrer spec

60-1500 rpm

Temp range

5-380 °C

Power

AC115V-AC230V

Weight & dimensions

205(W) x 260(D) x 110(H) mm



SI Analytics provides a wide range of buffer solutions, electrolytes bridges and storage solutions, in a variety storage vessels including PE Bottle, DURAN® Glass Bottles and Ampoule.

Electrolyte for Reference Electrodes Bridges and Storage

Model	Description	Contents
L 101	1 mol/l KCL	1,000 ml DURAN Glass Bottle (Ster)
L 1254	0.6mol/l K ₂ SO ₄	250 ml DURAN Glass Bottle
L 200	Low temperature electrolyte (-30 °C)	1,000 ml DURAN Glass Bottle
L 2004	Low temperature electrolyte (-30 °C)	250 ml DURAN Glass Bottle
L 2114	2 mol/l KNO ₃ + 0.001 mol/l KCl	250 ml DURAN Glass Bottle
L 2214	2 mol/l KNO ₃ + 0.001 mol/l KCl	250 ml DURAN Glass Bottle
L 2224	2 mol/l KCL	250 ml DURAN Glass Bottle
L 300	3 mol/l KCL	1,000 ml DURAN Glass Bottle (Ster)
L 3004	3 mol/l KCL	250 ml DURAN Glass Bottle (Ster)
L 3008	3 mol/l KCL	50 ml PE Bottle
L 3014	Potassium chloride solution 3 mol/l,	250 ml DURAN Glass Bottle
L 310	2 mol/l KCL	1,000ml DURAN Glass Bottle
L 3104	Potassium chloride solution 2 mol/l,	250 ml DURAN Glass Bottle
L 320K	Potassium chloride solution 2 mol/l	1,000 ml DURAN Glass Bottle
L 9114	Storage electrolyte solution, sterilized	250 ml DURAN Glass Bottle

Solutions for Oxygen Measurements

Model	Description	Contents
L 6708	OX 1100/OX 1100+/OX 1101	50 ml PE Bottle
OX 920	Electrolyte for oxygen electrodes 9009 / 61	50 ml PE Bottle
OX 921	Cleaning solution for oxygen electrodes 9009 / 61	50 ml PE Bottle
OX 060	Zero point solution for oxygen electrodes OX 1100 / OX 1100 +	60 FIO LAX 20ml ampoules

Solutions for Ammonia Measurements

Model	Description	Contents
L 6408	Electrolyte for ammonia combination electrodes	50 ml PE Bottle

Solutions and Accessories for Conductivity Measurements

Model	Description	Contents
LF 990	0.001 mol/l (147 µS/cm) KCL Standard Solution	3 x 6 FIO LAX® ampoules à 20 ml*, manufacturer certificate
LF 991	0.01 mol/l (1.41 mS/cm) KCL Standard Solution	3 x 6 FIO LAX® ampoules à 20 ml*, manufacturer certificate
LF 992	0.1 mol/l (12.9 mS/cm) KCL Standard Solution	3 x 6 FIO LAX® ampoules à 20 ml*, manufacturer certificate
LF 995	0.01/0.1/1 mol/l KCL Standard Solution	3 x 6 FIO LAX® ampoules à 20 ml*, manufacturer certificate
LF 1000/ Set	Same as LF 999 / set, in addition platinizing vessel and cable B 1 N	3 x 6 FIO LAX® ampoules à 20 ml*, manufacturer certificate
LF 1024	KCL 0.01 mol/l (1.41 mS/cm) Standard Solution	250 ml PE Bottle
LF CSKC13	KCL 1.3 µS/cm Standard Solution	250 ml PE Bottle
LF CSKC5	KCL 5.0 µS/cm Standard Solution	500 ml PE Bottle

ORP Solutions

Model	ORP Pt/ Calomel	Pt/Ag/AgCl	Contents
L 4619	180 mV	220 mV	60 FIO LAX 20 ml Ampoule DIN 38 404-C6
L 4643	430 mV	470 mV	60 FIO LAX 20 ml Ampoule
L 4660	600 mV	640 mV	60 FIO LAX 20 ml Ampoule
L 4648	180, 430, 600 mV	220, 470, 640 mV	3x20 FIO LAX 20ml Ampoule
L 430	430 mV	470 mV	1,000 ml DURAN Glass Bottle
L 4304	430 mV	470 mV	250 ml DURAN Glass Bottle

Electrolyte Solution Organic

Model	Description	Contents
L 5014	LiCl saturated in glacial acetic acid	250 ml DURAN Glass Bottle
L 5034	LiCl 1,5 mol/l in ethanol	250 ml DURAN Glass Bottle

FIO LAX® Ampoule pH Buffer



The exactness of the pH measurement is mainly dependent on the accuracy of calibration. This again highly depends on the reliability of the buffer.

Hermetically sealed in the glass ampoule and sterilized with hot steam, same as a pharmaceutical product, the buffer solutions free of preservation agent have an extremely long shelf life and guarantee continuously error-free characteristics.

250ml PE bottles:
pH 4.01, 7.00, 10.01



Features

- Reliability and measuring safety
- Extremely long storage times, thanks to hot-steam sterilization
- Without preservative agent
- A maximum of calibration safety

Buffer solutions in the unique double-end ampoules offer a particularly high degree of reliability and measuring accuracy.

DO & BOD
pH · ORP · ISE
MULTI · EC
Photometry
Piston Burette
Titration
Viscosity
Refractometer
Polarimeter
Temp. · Humid. · Press
Oil · Salinity
TOC · ACA
Hotplate · Stirrer



Bellingham + Stanley's expertise in optical engineering, electronics and software design has enabled us to create instruments that are used extensively throughout the world's food, drinks, pharmaceutical, chemical and petroleum industries.

Core product lines

- Refractometers
- Polarimeters
- Certified reference materials



Provides temperature measurement and data-logging technologies for the measurement of temperature, pressure, humidity and other physical parameters, primarily serving the food, medical, industrial and chemical industries.

Core product lines

- Temperature/Humidity and pressure dataloggers
- Temperature/Humidity and pressure online and handheld



Offers analytical instruments that detect, measure, analyze and monitor chemicals in liquids, solids and gases and products used to digest, extract and separate components of chemical mixtures.

Core product lines

- TOC, Online/Labatory
- Purge and Trap
- Flow solutions



SI Analytics®

The manufacturer of titrators, viscosity measuring systems, extensive line of glass capillary viscometers, SCHOTT® Instruments high-performance laboratory and process electrodes as well as meters for the measurement of pH, dissolved oxygen and conductivity for food and beverage, pharmaceutical and other demanding markets.

Core product lines

- Titration
- Water quality sensors and monitoring equipment
- Viscometry



WTW Online offers a comprehensive range of Water Quality parameters from the standard Physio-Chemical through to the Optical determination of Carbon and Nitrogen parameters to the range of Chemical Analysers for Nutrient based determination.

Core product lines

- Online and portable water quality instruments
- UV/Vis, spectrophotometers



YSI's environmental products provide high quality, high resolution data to better understand and manage our water resources. YSI Life Science and laboratory products are considered the Gold Standard for QC applications. They are used for process control, research and industrial applications by food and beverage, environmental, biofuels, biotech and pharmaceutical customers.

Core product lines

- Life Science analysers
- Water quality sensors and instruments

Xylem |'zīləm|

1. The tissue in plants that brings water upward from the roots;
2. A leading global water technology company.

We're a global team unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to www.xylem-analytics.asia



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