



Laboratory and Quality Control Instruments

Xylem Lab Solutions Catalog

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Welcome to Xylem Inc.

Precision Analytical Instrumentation from Xylem

Premium quality process, portable, and laboratory instrumentation for all kinds of applications

Xylem Analytics prides itself as being one of the leading suppliers of quality process, portable, and laboratory instrumentation with a comprehensive product portfolio.

Proven premium brands, as well as innovative new developments from our own research and development, meet the high demands for precise, reliable, simple and low-maintenance quantitative and qualitative measurement analytics. Our solutions always have eye on energy saving, process efficiency, and compliance within legal framework conditions.

Our experts will accompany you every step of the way, answering any questions you may have through years of combined expertise. By investing in our measurement technology the basis for smart data management we endeavour to strengthen your decision-making, processes, and quality control with reliable products, services, and support.

We solve the most difficult measurement problems in various key industries

We provide world-class measurement technology and expertise in the analysis of quantitative and qualitative measurement parameters for a wide range of applications. These include wastewater, drinking water, groundwater, agriculture, aquaculture, food and beverage, pharmaceutical, medical, automotive, energy and other industries.

Follow Us

Lab Parameter Handbooks

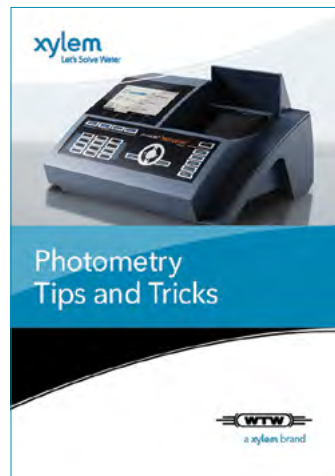
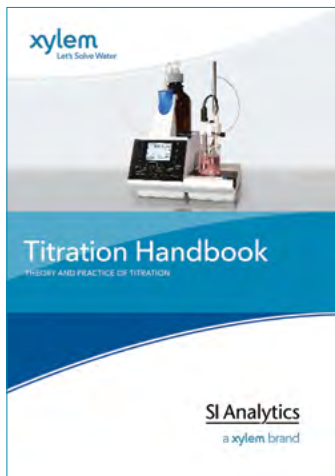
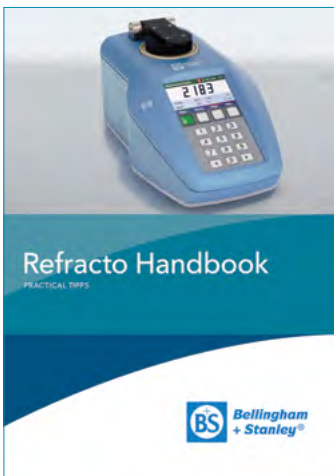
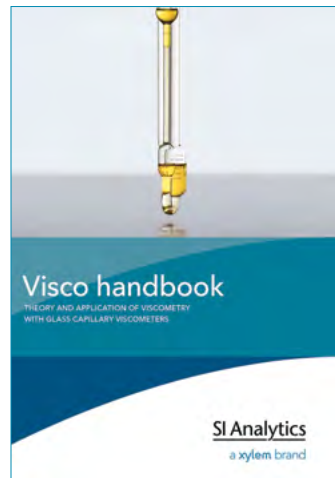
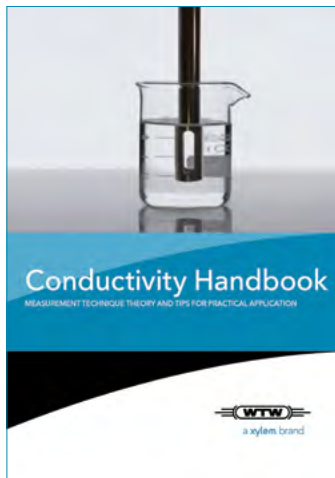
Download our lab handbooks for theory, tips and practice



- pH Handbook
- Oxygen Handbook
- Conductivity Handbook
- Viscometry Handbook
- Refractometry Handbook
- Titration Handbook
- Practical Photometry Tips



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QUALITY CONTROL

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Digital Multiparameter Benchtop Meter

InoLab® Multi IDS 9310, 9620, 9630

Highly suitable for digital measurements of pH, ORP, dissolved oxygen (optical), BOD, conductivity and turbidity in the lab.

Features

- Wireless ready - convenient for use under laboratory hoods or laminar flow benches.
- Smart sensor evaluation
- Digital sensor recognition
- Uncompromised measuring accuracy

9310 IDS	single channel input
9620 IDS	simultaneously measure two parameters
9630 IDS	simultaneously measure three parameters



Simple pH Lab Benchtop Meter

inoLab® pH 7110

Simple, easy-to-use lab pH meter for the routine measurement with reproducible measuring results and increased measuring accuracy.

Features

- Repeatable measuring results by automatic recognition of stable values
- Secure operation: Automated functions reduce the number of keys
- Increased measuring accuracy by calibration timer with periodic reminders for calibration

Parameter	pH/mV/Temp
Measuring range pH	-2.000 ... 19.999
Measuring range Temperature	-5.0 ... 105.0 °C



Conductivity Benchtop Meter

inoLab® Cond 7110

Compact, well-equipped conductivity benchtop meter for two and four electrode cells for routine measurements without documentation

Features

- Suitable for pure water measurements according to pharmacopeia
- Easy calibration including calibration timer
- Wide range of applications with standard and special measuring cells
- AutoRead function ensures repeatable results

Parameter	Conductivity, Resistivity, Salinity, TDS, Temperature
Conductivity	0.001 µS/cm ... 1000 mS
Salinity	0.0 ..70.0



Analog pH Lab Benchtop Meter
inoLab® pH 7310

Precise pH and ORP meter with documentation function to use in quality assurance, pharmaceutical industry and everywhere GLP-supported documentation is required.

Features

- Monitoring of the optimum measuring range via CMC function
- Secure and convenient operation via text menus in a bright graphic display
- Ideally suited for applications in quality assurance laboratories in all industries to support documentation according to GLP
- Repeatable measuring results by automatic recognition of stable values

Parameter	pH/mV/Temp
Measuring range pH	-2.000 ... 19.999
Measuring range Temperature	5.0 ... 105.0 °C



Portable Multi-Parameter Meter
MultiLine® Multi IDS
3630, 3620, 3510

Wireless-ready device, compatible with all WTW IDS sensors—pH, ORP, dissolved oxygen, conductivity, and turbidity—via cable or wireless.

Features

- For pH, ORP, dissolved oxygen, conductivity and turbidity
- Digital sensor detection
- Wireless ready
- Batteries can be charged directly in the device

3630 IDS	3 universal measuring channels
3620 IDS	2 universal measuring channels
3510 IDS	1 universal measuring channel

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater

Analog Sensors



	SenTix® 21 pH	SenTix® 41 pH	SenTix® 51 pH	SenTix® 81 pH	TetraCon 325
Type	Low-maintenance gel electrolyte pH electrodes with robust plastic shaft, for routine measurement in the lab and field.	Low-maintenance gel electrolyte pH electrodes with robust plastic shaft, for routine measurement in the lab and field.	Robust liquid electrolyte electrodes with plastic shaft and ceramic diaphragm, for mobile measurement.	Precision liquid electrolyte electrodes with glass shaft and platinum wire diaphragm, for the laboratory.	Four electrode conductivity measuring cells with graphite electrodes for precise and reliable measurement results.
pH measuring range	0 ... 14 pH	0 ... 14 pH	0 ... 14 pH	0 ... 14 pH	1 µS/cm ... 2 S/cm
Temperature range	0 ... 80 °C	0 ... 80 °C	0 ... 80 °C	0 ... 100 °C	-5 °C ... 80 °C
Reference electrolyte	Gel	Gel	KCl 3 mol/l, Ag+ free	KCl 3 mol/l, Ag+ free	Graphite
Connector	DIN	DIN & banana	DIN & banana	DIN & banana	POM



Digital Sensors



	SenTix® 940	SenTix® 940-3	FDO® 925-3	TetraCon® 925
Type	Low-maintenance IDS gel electrolyte pH electrodes with robust plastic shaft, ideal for mobile measurement.		Universal digital optical dissolved oxygen measurement with low-maintenance and fast results.	Precision liquid electrolyte electrodes with glass shaft and platinum wire diaphragm, for the laboratory.
Measuring range	0 ... 14 pH	0 ... 14 pH	0 ... 20 mg/l O ₂	1 µS/cm up to 2000 mS/cm
Temperature range	0 ... 80 °C	0 ... 80 °C	0 ... 50 °C	0 ... 100 °C
Reference electrolyte	Gel	Gel	POM	Graphite
Connector	Fixed IDS cable 1.5 m	Fixed IDS cable 3 m	3 m fixed cable with water-proof digital plug	1,5 m fixed cable with water-proof digital plug



IDS - Intelligent, Digital Sensors

WTW IDS sensors can measure standard parameters like pH, conductivity, and dissolved oxygen.

The IDS system consists of two components: digital sensors and matching field and laboratory instruments. The sensors process measurements, not the meter, which provides several advantages:

Features

- Premium sensor technology combined with advanced measurement electronics
- IDS sensors store serial numbers and calibration history
- Current rating of sensor quality with IDS pH electrodes by QSC (Quality Sensor Control)
- Plug head sensors are available for measurement with IDS wireless modules



Quality Control

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SI Analytics



Piston Burette for Manual Titration

TITRONIC® 300

TITRONIC® 300: Precise motor-driven burette for titration and dosing, standalone or computer-controlled.

Features

- Standard methods for manual titrations and dosing
- Adjust titration rate in five steps for optimal speed and accuracy
- Up to 16 devices can be connected
- Adjustable dosing and filling rate for each method.

Dosing Unit	20 ml; 50ml
Dosing Accuracy	According to DIN ISO 8655, part 3: Accuracy: < 0.15 % Precision: < 0.05 %
Resolution	8000 steps

SI Analytics



All Purpose Burette

TITRONIC® 500

The ideal piston burette for manual titrations, accurate dosing applications as well as the preparation of solutions.

Features

- Brilliant TFT display
- 5, 10, 20 and 50 ml volume capacity
- Connect up to 16 devices
- Store dosing methods with different parameters.

Dosing Unit	5, 10, 20 ml or 50 interchangeable burette units
Dosing Accuracy	According to DIN ISO 8655, part 3: Accuracy: < 0.15 % Precision: < 0.05 - 0.07 % (in dependence of the used burette size)
Resolution	20.000 steps

SI Analytics



Potentiometric Titrations

TitroLine® 5000

A compact, easy to use titrator for the Food & Beverage industry. Offers standard methods for routine titrations.

Features

- Pt 1000 and NTC 30 temperature measurement input
- Linear and dynamic titration to equivalence points
- Titration to pH and mV-end points
- Linear and dynamic titration to equivalence points
- pH/mV-measurement input for pH-, ORP-, silver - and further mV-electrodes

pH/mV	pH/mV-input with electrode socket according to DIN 19262. BNC via adapter.
pH/accuracy	- 3,0... 17,00 / 0,05 +/- 1 digit
mV/accuracy	- 1900...1900/ 1,0 +/- 1 digit

SI Analytics



Automatic Titration

TitroLine® 7000

Ideal for potentiometric titration. Perfect choice for food, water/waste water, and environmental analysis applications.

Features

- Perfect for non-aqueous titration
- pH Stat titrations
- Single and continuous measuring
- Automatic wireless recognition of SI Analytics ID electrodes
- High resolution pH/mV electrode and temperature inputs for pH, ISE, redox (ORP) or photometric titrations

mV/accuracy	- 1900...1900/ 1,0 +/- 1 digit
pH/accuracy	- 3,0... 17,00 / 0,05 +/- 1 digit
Measuring Input	pH/mV-input with 24 bit transducer. Electrode socket according to DIN 19 262 or BNC with RFID receiver for SI Analytics ID electrodes

SI Analytics



Volumetric and Karl Fischer Titration

TitroLine® 7750

Combines the features of the potentiometric titrator TitroLine 7000 and the volumetric Karl Fischer titrator TitroLine 7500.

Features

- Interchangeable modules
- Accessories for KF titration
- Stores all relevant reagent and unit data
- Expandable with USB and LAN ports
- Perfect for non-aqueous titration

mV/accuracy	- 2000...2000/ 0.1 +/- 1 digit
pH/accuracy	- 3.0... 18.00 / 0.002 +/- 1 digit
Measuring Input	pH/mV-input with 24 bit transducer Electrode socket according to DIN 19262 or additional with BNC socket insert RFID receiver for SI Analytics ID electrodes

SI Analytics



Universal Titrator with IDS Technology

TitroLine® 7800

The TitroLine® 7800 can perform potentiometric titrations with analog and IDS electrodes up to volumetric KF titrations.

Features

- Wireless recognition of SI Analytics ID electrodes
- Inputs for pH, ISE, redox (ORP) or photometric titrations
- Second digital measuring socket for pH-, conductivity, ORP sensors (IDS)
- Perfect for non-aqueous titration

mV/accuracy	- 2000...2000/ 0.1 +/- 1 digit
pH/accuracy	- 3.0... 18.00 / 0.002 +/- 1 digit
Measuring Input	pH/mV-input with 24 bit transducer. Electrode socket according to DIN 19 262 or BNC with RFID receiver for SI Analytics ID electrodes

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater

TITRONIC® burettes and TitroLine® titrators selection table

Application	TITRONIC® 300	TITRONIC® 500	TitroLine® 5000
Intelligent interchangeable units (5, 10, 20 and 50 ml)	1)	■	1)
Manual titration	■	■	■
Dosing	■	■	■
Solutions preparation (manually or automatically with connected balance)	–	■	–
Automatic titration (independent with external software)	2)	2)	■
Applications with TitrifSoft	■	■	–
pH/mV titrations „aqueous“ (Alkalinity, hydrochloric acid, citric acid, Kjeldahl...)	–	–	■
Redox titrations (iodometry, permanganometry....)	–	–	■
Redox titrations (COD)	–	–	■
Halide titrations (chloride, "salt"...)	–	–	■

SI Analytics

TITROLINE® 5000



Application	TitroLine® 7000	TitroLine® 7750	TitroLine® 7800
Intelligent interchangeable units (5, 10, 20 and 50 ml)	■	■	■
Applications with TitrSoft	■	■	■
pH-stat-applications (enzyme kinetics, soil samples, biotechnology)	■	■	■
Applications with sample changer	■	■	■
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)	■	■	■
Hydrogen sulphide and mercaptans	■	■	■
Bromine number	■	■	■
Water analysis according to KF Volumetric method (10 ppm - 100 %)	—	■	■
Measuring two parameters at the same time (e.g., pH and Cond)	—	—	■
Photometric titration (OptiLine 6)	■	■	■

Compliant Titration Standards

TitroLine® 7000, TitroLine® 7750, and TitroLine® 7800 can be used for applications compliant with the following standards:

ASTM D664	ASTM D2710	ASTM D2073-92	DIN ISO 3771	AHPA 2320 B.
ASTM D974	ASTM D5776	ASTM D2074-2007	DIN ISO 660	AHPA 4500 D
ASTM E1899	ASTM D1159	ASTM D4208	ISO 3681	AHPA 4500 O C.
ASTM D3227	BS 5711-1979 part 3	ASTM D512	ISO 5943	
ASTM D2896	UOP 163	BS-EN 196-21	ISO 8467	
ASTM D1126	UOP 291			

Quality Control

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Volumetric Generalist

TitroLine® 7500 KF

Compact, easy-to-use volumetric titrator for water determination according to KF with an operating range of 0.1 % - 100 % water.

Features

- Volumetric KF titration
- Ready to use standard methods for standardization of the titrant and sample titration for 1- and 2-Component KF titrants.
- Statistical functions including average value and relative standard deviation
- Configurable output: Short, Standard with curve, GLP
- Formula editor for individual calculations

Measuring input μ A/KF:	μ A-connector for double platinum electrodes, connection: 2 x 4 mm - sockets), polarisation voltage variably adjustable
Interfaces:	3 x USB (2 x USB-A and 1 x USB-B), 2 x RS-232-C and 1 x LAN
Dimensions	5, 10, 20 ml or 50 ml intelligent interchangeable burette units

SI Analytics



Specialist for Low Water Contents

TitroLine® 7500 KF Trace

Compact, easy-to-use coulometric titrator for water determination according to KF with a typical operating range of 1 ppm - 5% water.

Features

- Suitable for chemical, petrochemical, pharmaceutical and other industries.
- Coulometric KF titration with automatic drift determination and correction.
- Standard methods for various applications such as water in %, water in ppm, water with KF oven, etc.
- Statistical functions including average value and relative standard deviation.
- Can be used for applications compliant with ASTM D6304-B.

Measuring input indicator electrode	Connector for double platinum electrode with 2 x 4 mm sockets
Measuring input generator electrode	Sockets: 2 x 4 mm, coded in color
Interfaces:	3 x USB (2 x USB-A and 1 x USB-B), 2 x RS-232-C and 1 x LAN

SI Analytics



	A 162 (IDS)	N 6480 Eth	Pt 62 RG	AgCl 62 RG	OptiLine 6	KF 1100
	ScienceLine pH combination electrodes with temperature sensor	ScienceLine pH combination electrode	ScienceLine Metal combination electrode	ScienceLine Metal combination electrode	OptiLine for Photometric titrations	ScienceLine Single electrodes: pH glass and metal electrodes
Length [mm]	120	170	120	120	132	96
Ø [mm]	12	12	12	12	12	12
Junction	platinum	ground joint				
pH glass	Type A	Type A	Type A	Type A		Pt
Temp range	-5 to +80	0 to +40	-5 to +100 °C	-5 to +100 °C	0 - 50 °C	-30 to +135
Connector	plug head (IDS plug)	plug head	plug head	plug head	USB-plug A, BNC-plug with BNC-DIN-adaptor	fixed cable, 2 x 4-mm plug
Sensor, Shape	sphere glass membrane		Metal Pt, ring, 6 mm Ø	Metal Pt-bearing - silver coated, chlorinated, ring, 6 mm Ø"		2 pole, 1 mm Ø

Quality Control

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SI Analytics



Rotary sample changer

Sample Changer TW 7200

Provides sample trays or racks for up to 24 samples and titration head fittings for a variety of beaker and titrator vessels.

Features

- Sample trays from 12 to 48 positions for sample vessels from 28 to 82 mm diameter
- Titration heads and sample trays can be changed in one easy step
- Special designs for special vessels with other diameters available on request
- Increased safety due to automatic recognition of the sample tray.
- pH electrode calibration can be done on the sample changer

Dimensions:	143 x 620 x 505 mm (W x H x D) Sample tray: 450 mm
Magnetic stirrer:	2 fixed magnetic stirrers
Sample trays:	From 12 - 48 positions

SI Analytics



For High Sample Throughput

Sample Changer TW 7450

A robust and sturdy sample changer particularly suitable for a large number of samples, carried out via the software TitriSoft.

Features

- Rack sizes of 42, 48 and 72 positions available
- Titration heads and sample racks can be changed in just a few steps.
- Connection of one pump possible
- Special designs for special vessels with other diameters available on request.
- Very fast and quiet.
- The usable sample vessels have a volume of 50 to 250 ml

TW7450-48	Sample rack with 48 positions is suitable for 100 ml beakers.
TW7450-42	Sample rack with 42 positions can be operated with either 150 or 250 ml beakers.
TW 7450	Basic unit without titration head and sample rack.

SI Analytics



For Coulometric KF Titration

Headspace Oven TO 7280 & Sample Changer TW 7650

The headspace oven technique of the TO 7280 allows the separation of the water to be titrated from liquid, solid and semi-solid (paste-like) samples. In combination with the TW 7650 sample changer, up to 49 samples can be analysed.

TO 7280 Features

- Automatic lowering and raising of the needle head
- Automatic switching on and off of the air/gas supply
- Can be upgraded to a fully automatic system by connecting the Sample Changer (TW7650)
- Semi-automatic or fully automatic water determination

TW 7650 Features

- Up to 49 samples* can be measured
- The start drift can be determined before each sample
- Each sample can be measured at a different temperature
- Can be upgraded to the TO 7280 oven at any time

SI Analytics



PC Titration Software

TitriSoft 3.5 & TitriSoft 3.5P

TitriSoft 3.5 titration software can be used with Windows 7, 8.1 and 10 and supports your daily work procedures during sample preparation, titration and evaluation of the results.

Features

- For TITRONIC® 300, TITRONIC® 500, TitroLine® 7000 - 7800 and sample changer.
- Connect titration hardware to any free USB or serial interface of your PC
- All devices connected to the PC can be used in all configurations
- Can be used exclusively for dosing tasks with piston burettes.

TitriSoft 3.5	for TitroLine® 7000, TitroLine® 7500 KF/7500 KF trace, TitroLine® 7750/7800 and TitroLine® alpha plus
TitriSoft 3.5P	"P" stands for "pharmaceutical" Same as version 3.5 but 21 CFR compliant

Quality Control

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Automatic Viscosity Measurement

ViscoClock Plus

The ViscoClock plus is designed for SI Analytics® Ubbelohde, Micro Ubbelohde and Micro Ostwald viscometers.

Features

- Measuring range - Time up to 999.99 s; resolution 0.01 s
- USB Host to connect USB flash drive or printer
- Compatible with all SI Analytics® thermostatic bath types
- Accuracy of time measurement : ± 0.01 s / ± 1 digit; however no more precise than 0.1 %; indicated as measuring uncertainty with a confidence level of 95 %

Memory	Data stored on USB stick
Display	LCD grafic display (FSTN) 128 x 64 pixel, 51x31mm (w x h)
Power	DC + 9 V

SI Analytics



PC Controlled Capillary Viscometer

AVS® 370

The AVS® 370 is a precise PC-controlled device with flexibility, extensions, and space-saving features.

Features

- Modular concept - up to 3 other ViscoPump III modules can be installed in the compact housing
- When using a waste system, the viscometer self-cleans after discharging the sample, making manual cleaning unnecessary.
- Measured value display via PC
- Flow time measured with 0.01s resolution using optoelectronics or TC sensors for meniscus detection.

Scale	Measuring range (time) up to 9,999.99 s; resolution 0.01s
Power	90 to 240 V ~, 50 to 60 Hz
Dim / Weight	(W x H x D) ~255 x 205 x 320 mm / 5.4kg

SI Analytics



Fully Automatic Capillary Viscometer
AVS Pro III

PC-controlled, fully automated sampler for the determination of the viscosity, viscosity number, intrinsic viscosity etc.

Features

- Time measurement with a precision of +/- 0.01 s (but less precise than 0.1%)
- Macro or micro dosing module, depending on viscometer types
- Variable waste system
- Viscometer types that can be used: Ubbelohde (DIN, ASTM), Mikro-Ubbelohde (DIN), Cannon-Fenske routine and SI Analytics Micro-Ostwald

Scale	Calculated parameters : mean value, standard deviation, outlier test (A %), Hagenbach correction, absolute viscosity, dynamic viscosity (knowledge of density required), viscosity index (measurement at two temperatures required) SUS and SFS, relative viscosity, specific viscosity, reduced viscosity (viscosity number), inherent viscosity, K-value, intrinsic viscosity.
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SI Analytics



Transparent Viscometer Thermostat
CT 72 Series

For Newtonian liquids in glass capillaries, adaptable for both manual and automated viscosity measurements.

Features

- Thermostatic baths
- High temperature stability ± 0.02 K as requested in viscometry standards
- Display of the momentary and set temperature.
- Suitable for manual measurement or AVS®/S measuring stands

CT72/P	from +10°C to +60°C; 2 measuring positions
CT72/2-TT	from -40°C to +150°C; 2 measuring positions
CT72/2	from +5°C to +150°C; 2 measuring positions
CT72/4	from +5°C to +150°C; 4 measuring positions

Quality Control

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Automated Digital Benchtop Refractometer

RFM 700 Series (RFM712/732/742M)

Automatic measurement ideally suited to the food, sugar and beverage industries. Usable in non-food applications where temperature control is not required.

Features

- Alpha-numeric keypad for easy data entry
- Flat sapphire glass prism surface for durability and easy-cleaning
- Spill Barrier made of PEEK, chemically resistant material
- Selectable read type: Continual, single, intelligent auto-sense
- Results are temperature compensated to 20°C in accordance with ICUMSA
- Additional user scales can be loaded into the instrument

Scales/ Unit	Brix (RI) RFM 712M : 0 - 50 (1.33-1.42) RFM 732/742M : 0 - 100 (1.33-1.54)
Resolution	Brix (RI) RFM 712/732M : 0.1 (0.0001) RFM 742M : 0.01 (0.00001)
Accuracy & Precision	Brix (RI) RFM 712/732M Accuracy ±0.1 (±0.0001) Precision: ± 0.05 (± 0.00005) RFM742M Accuracy ±0.04 (±0.00005) Precision: ± 0.01 (± 0.00001)



Digital Benchtop Refractometer

RFM 300 Series (RFM330/340M, RFM330T/340T)

Up to 6 decimal places Brix precision on 0-100 Brix (1.58 RI) scales with Peltier control. Ideal for food, beverage, chemical, and industrial use.

Features

- Flat sapphire glass prism surface for durability and easy-cleaning
- Wide beam scan for non-homogenous samples
- Spill Barrier made of PEEK, chemically resistant material
- ATC & Peltier Control
- Supports FDA regulation 21 CFR Part 11
- Tactile & robust keypad (330/340M) or Fast respond Touch Screen (340T)

Scales/ Unit	Brix (RI) RFM 330M/T, 340M/T 0-100 (1.32 - 1.58)
Resolution	Brix (RI) RFM 330M/T : 0.1 / 0.01 (0.0001 / 0.00001) RFM 340M/T : 0.01/0.001 (0.000001)
Accuracy & Precision	Brix (RI) RFM 330M/T Accuracy ±0.04(±0.00005) Precision: ± 0.01(± 0.00001) RFM340M/T Accuracy: ±0.010 (0 - 30 °Brix) ±0.030 30 - 100 °Brix) RI ±0.00002 (1.32 - 1.38 RI) ±0.00004 (1.38 - 1.58 RI) Precision: ±0.005 (± 0.000005)



Digital Benchtop Refractometer

RFM 900 Series (RFM960/970T)

With precise Peltier control. Great for chemical, petrochemical, pharmaceutical, flavors, fragrances, and academic research.

Features

- Easy clean prism
- Wide Range - 1.30 to 1.70 RI
- Up to 6 decimal places
- Wide Temperature Range
- Temperature Stability Checks
- RFID user clearance



Scales/ Unit	Brix (RI) 0-100 (1.30 - 1.70)
Resolution	Brix (RI) RFM 960T : 0.1 / (0.0001)/ RFM 970T : 0.01/0.001 (0.000001)
Accuracy & Precision	Brix (RI) RFM 960T Accuracy: $\pm 0.1(\pm 0.0001)$ Precision: $\pm 0.05(\pm 0.00005)$ RFM970T Accuracy: $\pm 0.02(\pm 0.00002)$ Precision: $\pm 0.005(\pm 0.000005)$



Measurement Display	8	✓ 20.0	20.00	19:15
7.68		Scale:	bx	
		TC:	su	
1.03044		Scale:	d1	
		TC:	su	
Method: cola		Temp: 20.0	Qual: 97	
Read	Record	Methods	Menu	

Quality Control

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Water & Wastewater



Single Wavelength Polarimeter

ADP 400 Series

With or without XPC for Peltier control. Offers single-wavelength measurement. Ideal for sugar, food, chemical, and pharmaceutical sectors.

Features

- Both models use standard ICUMSA polarimeter tubes with a maximum length of 200mm
- Resolution of 0.001 angular degrees (°A) and are capable of reading to an accuracy of ±0.010 °A
- Excellent reproducibility of up to 0.002 °A
- Continuous measurement or 'single-shot' mode
- Conforms to USP/EP/BP/JP (@589nm)

Scales/ Unit	Angular degrees: -355° to +355° International Sugar Scale (°Z): -225 to +225 °Z, Specific Rotation, Concentration (g/cm ³), Purity, % Invert sucrose, % change (Inversion A-B) and Specific Rotation (concentration, moisture content, length) Batch MEAN Method for Pharmacopoeia and GLP.
Resolution	Angular degrees: 0.01/0.001° / International Sugar Scales(°Z): 0.01/0.001 °Z
Accuracy	Angular degrees ±0.01° / ±0.03 °Z



Multiple Wavelength Polarimeter

ADP 600 XPC Series

Single/dual/multiple wavelength polarimeters with temperature control. Ideal for chemical, pharma, food, and academic research.

Features

- XPC Peltier temperature controlled
- Four decimal place resolution
- Conforms to USP/EP/BP/JP
- RFID user clearance
- 325/365/405/436/546/589/633nm is available for configuration as different models

Scales/ Methods	Primary: Angular degrees (°A) Other: I.S.S (z), Specific Rotation, Concentration (g/cm ³), Purity, % Invert sucrose, % change (Inversion A-B) and Specific Rotation (concentration, moisture content, length) Batch MEAN Method for Pharmacopoeia and GLP.
Resolution (°A)	0.0001
Accuracy (°A)	± 0.003 (@546, 589 & 633nm) / ± 0.005 (@325, 365, 405 & 436nm)



Digital Benchtop Saccharimeter

ADS 400 Series

Purpose built polarimeter that displays results in the ISS (°Z) scale. Designed for busy sugar laboratories, factories and tare houses.

Features

- Funnel flow or standard tube packages
- High definition 4" full colour display
- Continuous or single shot readings
- ATC (ADP435/438) or Patented XPC Peltier (ADS455/458) available
- ICUMSA and Tropical Scale ATC (ADS435/438)

Scales/ Methods	Primary: International Sugar Scale (°Z) Other: POL (ISS - °Z), % Concentration, Purity (Brix input), % Inversion of Sucrose, % Inversion (A-B), User defined (100)
Resolution	0.001 °Z
Accuracy	±0.030 °Z (@589) (NIR@850)



Digital Benchtop Densitometer

DSG 40/50 Density Meter

Designed for a variety of industries from flavours and fragrances and soft drinks in food & beverage, to raw materials testing in pharmaceutical.

Features

- Temperature measuring range up to 95 °C
- FDA 21 CFR Part 11 compatible
- Peltier Temperature Control
- Excellent reproducibility
- < 15 seconds exclude temperature stabilization time
- Strong air pump for thorough cleaning

Scales/ Unit	Density (g/cm ³), Specific Gravity, Sucrose %w/w (°Brix), Ethanol (%w/w, %v/v), user request
Resolution	DSG40: 0.0001g/cm ³ DSG50: 0.00001 g/cm ³
Accuracy	Accuracy DSG40: 0.0001 g/cm ³ DSG50: 0.00005 g/cm ³ Precision DSG40: 0.0001 g/cm ³ DSG50: 0.00002 g/cm ³

-ebro-



Complete Food Inspection Kit
EB 4401 Food Inspection Surveillance Set

Contains the required handheld meters, data loggers and accessories for a comprehensive food inspection routine for on-site, lab and food production use.

Contains the following

- TFX 422C Compliance assessed laboratory thermometer
- pH meter PHT 810 Robust pH Meter with automatic pH-calibration.
- Temperature data logger EBI 300 Multi-Use USB data logger
- Temperature data logger EBI 300 Multi-Use USB data logger
- Temperature data logger EBI 300 Multi-Use USB data logger
- Conductivity meter CT 830
- Dual infrared thermometer TLC 750i HACCP thermometer; Foldable penetration probe and infrared sensor



Cooking Oil Quality Monitor
FOM 330 Food Oil Monitor

Swiftly assess food oil quality while cooking; optimize replacement timing for cost-effective frying without compromising quality.

Features

- Signal or indicator light for visual measurement indication
- Calibration with reference oil
- Robust and oil-proof housing with backstrap for secure handling during measurements
- For actual in-process Food Oil Measurements

Scale	0% to 40% TPM* at oil temperature from +50.0oC to 200°C;
Accuracy	2% TPM in oil / Temperature ±-1oC
Power	3V Lithium Battery; Up to 3 years; User replaceable





Precision Core Temperature Thermometers
TFX 400 Series Thermometer

Can be used as an official control thermometer for monitoring the temperatures of quick-frozen foods in accordance with directive 92/2/EEC.

Features

- High-precision and stable sensor element
- Microprocessor-controlled
- Measurement range: -50 °C...+200 °C
- 150 cm silicone cable
- Waterproof IP 67

Measurement range	-100 °C ... +500 °C (-148 °F ... +932 °F)
Measurement accuracy	0.05 °C (-50 °C ... +199.99 °C) ±0.2 ° for the remaining measurement range
Resolution	0.01 °C (-10.00 °C ... +199.99 °C) 0.1 °C for the remaining measurement range



Conformity-Certified Laboratory Thermometer
TFX 422C Laboratory Thermometer

Supplied with a permanently connected Pt 1000 sensor. Suitable for high-precision temperature monitoring for use in food control and in the laboratory.

Features

- 150 cm silicone cable
- Robust and impact resistant
- High accuracy
- Waterproof IP 67
- According to EN 13485
- Approximately 5 years battery life time

Measuring Range	-50°C to +200°C
Accuracy	± 0.3°C (Full range)



Measures Relative Salinity
SSX 210 Salt Meter

Measures the salt content in fluid and semi-solid food products, such as meat, cold cuts, cheese, salads and much more.

Features

- Determined by electrical conductivity
- Measurements help to create consistent taste
- Handy and robust with easy operation
- Automatic shut-off
- ABS plastic housing with an IP54 protection rating
- Two conductor probe with gold plated electrodes

Scale/ Accuracy	0...100 Relative salinity / Accuracy at +25 °C ±1 digit
Weight/ Dimensions	200g / 100 x 46 x 25mm
Power	Lithium 3V / 1Ah, type CR2477

-ebro-

Dual Fold-back, Infrared Thermometer
TLC Series Thermometers

An infrared thermometer for noncontact measurements and a foldable rigid probe for core temperature measurements in one meter.

Features

- Temperature measuring range from -50°C to +250°C
- HACCP and DIN EN 13485 compliant including calibration certificate
- Practical pocket format for daily use
- EDC or HACCP software package available



TLC 750i	Core temperature measurement with fold-out penetration probe
TLC 750 BT	Bluetooth Data Transmission
TLC 750 NFC	Bluetooth / NFC Reader
TLC 1598	High-Accuracy PT1000 penetration probe
TLC 700	Standard Thermometer with foldable insertion probe





Digital Handheld Refractometer

Opti-M Portable Refractometer

Designed in the UK,, simple-to-use, accurate, pocket sized refractometer offering measurement between 0-95 Brix and over 50 total onboard scale library.

Features

- Full 0-95 Brix Scale
- Easy-clean, stainless steel prism dish
- Rapid temperature stabilisation
- Unique "AG Test Mode" that allows the use of long-life non sucrose based certified reference materials
- 3 active selectable scales (A, B and C)

Scales/ Unit	Brix: 0-95 full scales, RI: 1.33-1.53, SG: 1.000-1.050 Built-in 50 scales
Resolution	Brix: 0.1, RI: 0.0001, SG: 0.001
Accuracy & Precision	Accuracy (Brix/ RI/ SG) : 0.2/0.0003/ 0.003 Precision (Brix/ RI/ SG):NA



Analogue Handheld Refractometer

Eclipse

UK made, focuses on the high end of the sugar scale. Ideal for the control and monitoring of confectionary, syrups, toffee and honey.

Features

- IP65 rated against moisture ingress.
- Clear field of view
- All metal, durable refractometer
- For fruit, food, beverage, ketchup, tomato and other applications
- Makes use of the popular Brix scale

Scales/ Unit	Sugar (Brix) / Sugar Lo Vol (Brix) / Alcohol Content 10 - 135 °Zeiss/Starch 0 - 30% / Refractive Index 1.33 - 1.42 / Antifreeze / Battery Acid 0 to -40°C / Ethylene / Propylene Glycol 0 - 60% Vol. / Salinity 0 - 28% (NaCl)/ Aviation -RI
Resolution	RI: 0.001, Brix: 0.2 ~ 0.3

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater



Ultra Pure Water Systems

LaboStar Series

The LaboStar Pro series is extremely space-saving and is used for the cost effective production of analytically pure water.

Features

- Deionised water, distilled water or permeate from a reverse osmosis system is required as feed water.
- Rapid and simple disinfection
- Ultrapure water circulation right into the dispenser head
- The LaboStar PRO TWF systems produce ultra pure water directly from drinking water.

LaboStar Pro	Output water = Type 1 Delivery flow rate = 1.5 l/min Conductivity = 0.055 µS/cm
LaboStar Pro TWF	Output water = Type 1 & 3 Delivery flow rate = 1.2 l/min Conductivity = 0.055 µS/cm



Ultra Pure With Electronic Dispenser

Ultra Clear TP ED Series

Comes standard with an electronic dispenser allowing for precise and volume-controlled dispensing of ultra-pure water.

Features

- Up to 2L/Min of ultra-pure water - even with endotoxin-filter
- Delivered from the factory ready for operation
- Modbus connectivity to communicate with Building Management System (BMS)
- Printer port

Polisher	Output water = Type 1 Conductivity = < 0.055 µS/cm TOC = < 3 ppb
TWF	Output water = Type 1 & 2 Conductivity = < 0.055 µS/cm TOC = < 3 ppb
TWF EDI	Output water = Type 1 & 2 Conductivity = < 0.055 µS/cm TOC = < 3 ppb



Pure water systems

Ultra Clear RO, RO DI and RO EDI Series

Ultra Clear RO: Used to produce pure water from softened or hardness-stabilised drinking water. The product water is produced by the process of reverse osmosis and removes more than 98% of the constituents contained in the feed water.

Ultra Clear RO DI: Deionises (DI) the RO water in a further step and frees it from salts and remaining particles.

Ultra Clear RO EDI: The systems with electro-deionisation cell remove remaining salts from the permeate from reverse osmosis by ion exchange.

Features

- Connection to municipal drinking water supply
- Rapid and simple disinfection
- Whisper operation mode
- Conductivity monitoring of RO water

Ultra Clear RO	Output water = Type 3 Production rates = 20 - 100 l/h
Ultra Clear RO DI	Output water = Type 2 Production rates = 20 - 30 l/h Conductivity = < 0.07 µS/cm
Ultra Clear RO EDI	Output water = Type 2 Production rates = 10 - 30 l/h Conductivity = < 0.07 µS/cm

Reverse Osmosis System

Protegra CS Pro RO EDI

High-performance deionized water solution with industry-leading reverse osmosis and Ionpure® CEDI cell technology.

Features

- 1000 LPH maximum flow rate
- High-purity deionised water is simple & safe with Ionpure® CEDI cell technology
- Performance as a centralised distribution system
- Lower annual maintenance costs compared to competitor systems



Delivery Flow Rate	125 - 1000 l/h
Pure Water Quality	< 0.1 µS/cm
Yield Max	75%



High-Purity Dionizers
Deionization

Mixed bed deionizers provide cost-effective, high-purity deionized water for various applications. Special resin deionizers ensure reliable ion removal.

Features

- Configurable stainless steel systems to meet your needs
- Unique water distribution for capacity utilisation
- Low acquisition cost compared to a pure water system
- Low operating cost through reduced maintenance time

Capacity	2,000 - 15,000 Ltrs
Flow Rate Max.	450 - 3,000 l/hr
Resin Charge	13 - 100 Liters



Water Softeners
Filtration

Fully automatic, time-controlled single-tank or volume-controlled double softeners are perfect for upstream use before reverse osmosis systems. They ensure a constant supply of soft water with low salt and water consumption.

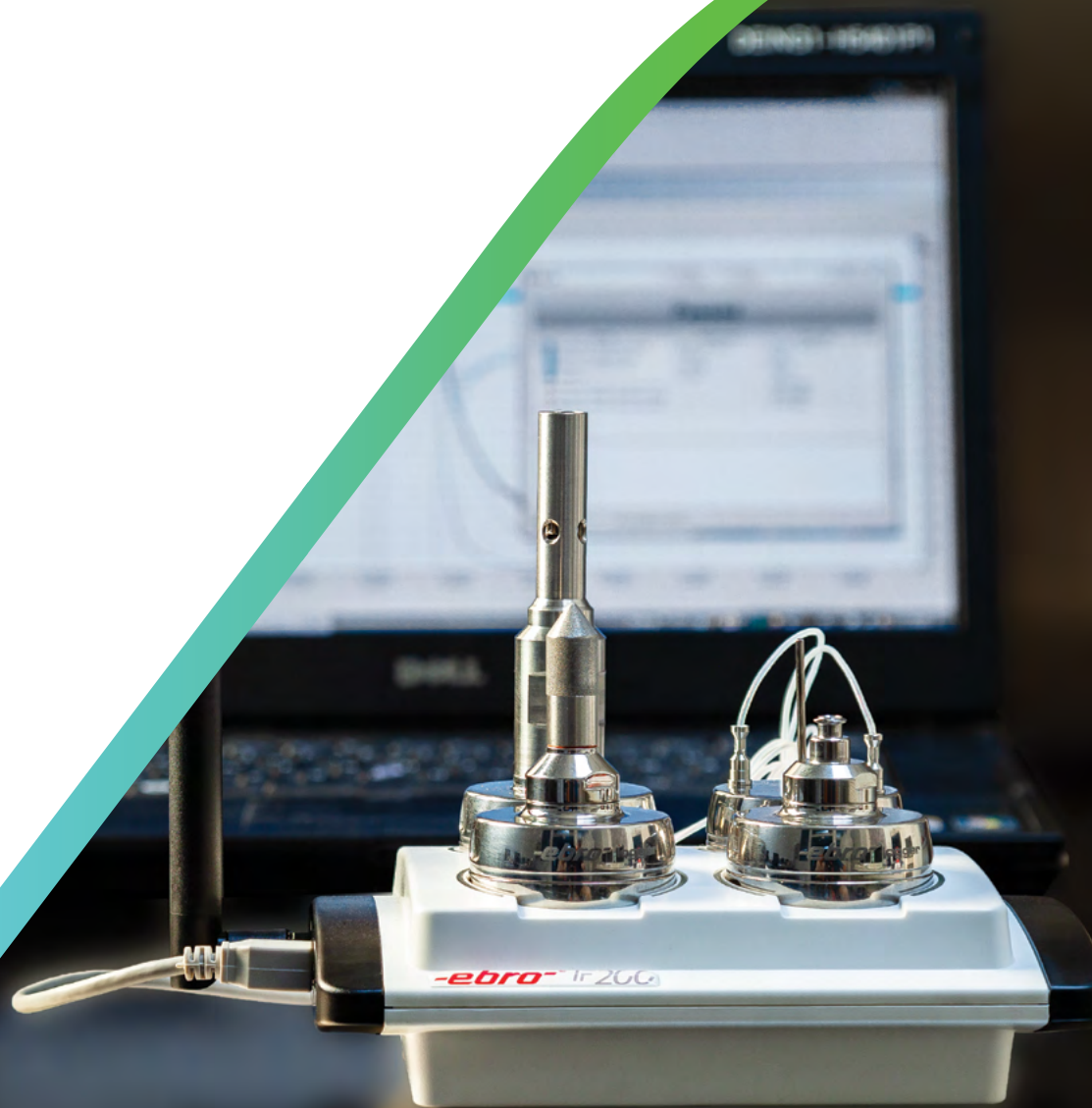
Features

- Range of optional flow meters
- Feature-rich digital controller for networked systems
- Corrosion-resistant fiberglass vessels
- Hydraulically controlled operation, no power connection required
- Filtered water is used to backwash the system
- Low operation costs

Single	Flow rate max. = 36 l/min
Cabinet Softeners	Flow rate max. = 19 - 20 l/min
VM Series	Flow rate max. = 39 - 66 l/min

THERMAL MAPPING & VALIDATION

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Qualified Temperature and Humidity Mapping

GMP Compliant Mapping

Benefit from our expertise in GxP compliant mapping of: production rooms, refrigerators and freezers and GxP-warehouses. Our service supports you in the planning and implementation of your mapping study.

We will go through the following steps with you:

- 1. Mapping Plan:** We create a mapping plan that can be perfectly adapted to the conditions in your company thanks to our variable templates.
- 2. Measurement Points:** We identify potentially critical risk points with you during an on-site inspection and record them in the measuring point overview.
- 3. Data Logger Selection:** For the duration of the measurements, we provide you with our high-precision temperature and humidity data loggers with fast response times.
- 4. Mapping Study Evaluation:** Our 21 CFR part 11 compliant software provides a single view of the results of all loggers with a detailed evaluation of the individual measuring points.
- 5. Report Creation:** A report will be prepared by our GMP and FDA experienced colleagues and the results will be summarized in an comprehensible way.

FCE SID Certification Support

Thermal Process Validation

Xylem Singapore's Validation Team is recognized by the U.S. FDA and British Retail Consortium (BRC) as a TPA (Thermal Process Authority). We have the expertise and experience as Process Authenticator, to file and successfully obtain FDA certification for our clients

Thermal Process Validation

- 1. Retorts:** Batch and Continuous Retorts, Rotary or Agitating and Continuous Spiral Cooker Coolers
- 2. Hot-Fill:** Tubular Continuous, Kettle Cooking and other Hot-Fill Methods
- 3. Pasteurization:** For Acid and Acidified Food Products such as fruit products and beverages
- 4. Aseptic:** UHT Processing Lines including Surge Tank Mapping and Microbial Challenge



Service and Calibration Labs in Key Regions across Emerging Markets

Datalogger Calibration Services

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+49 881 183-500

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater



Data Loggers for Tight Spaces

EBI 11 Wireless Mini Logger

Robust temperature data logger for thermal process validation of production processes in food, pharma and medical applications

Features

- The most suitable logger for validation procedures and Routine Monitoring that require loggers with small dimensions;
- Perfect for tight spaces, e.g. in small steam sterilizers, bottles, cans, pouches and other packaging
- Can be used for HDT and HPT procedures in process validations
- Wireless measurement
- Rigid and flexible metal probes available in different lengths

Accuracy: Temperature	±0.1 °C
Resolution: Temperature	0.01 °C
Dimensions	16.5mm x 24mm (without probe)

Model	Applications
EBI 11-T230	Sensor length: 20 mm
EBI 11-T231	Sensor length: 50 mm
EBI 11-T233	Sensor length: 100 mm
EBI 11-T235	Designed for endoscopes; sensor length: 25 mm
EBI 11-T236	Designed for endoscopes; sensor length: 80 mm
EBI 11-T237	Designed for endoscopes; sensor length: 165 mm
EBI 11-T210	Low-cost mini logger with just the right measuring range; sensor length: 20 mm
EBI 11-T240	Faster response time with low logger height and smaller sensor diameter; sensor length: 250 mm
EBI 11-TP210	Pressure Logger for pasteurization Control
EBI 11-TP110	Pressure Logger for pasteurization Control
EBI 11-P111	Pressure Logger with Luer-Lock connector for steam sterilizers and washer-disinfectors
EBI 11-P100	Pressure Logger for steam sterilizers and washer-disinfectors



-ebro-



Ultimate Thermal Process Validation Solution

EBI 12 Temperature Data Loggers

EBI 12 Wireless data logger series ensures full compliance with validation guidelines for pharma, medical and food thermal processes.

Features

- Full compatibility to Winlog software
- Large measuring range with PT1000 sensor
- Real-time data transmission
- Wireless measurement
- For H2O2, EtO Sterilizer and washer disinfectant use
- Can be used for various applications other than autoclaves or sterilizers like H2O2, EtO sterilizer and washer disinfectors

Application Range	-40 °C to 150 °C
High temperature accuracy	up to 0.05 °C
Ext temp measurement range	-200 °C to +400 °C

Model	Applications
EBI 12-T100	<ul style="list-style-type: none"> • Process monitoring during convenience food production • Routine control in badpan washers • Temperature mappings
EBI 12-T101	Dry ice and in cryogenic bedpan washers and washing machines
EBI 12-T21X	Pasteurization and sterilization control, especially in small containers
EBI 12-T23X	Canning for pasteurization control
EBI 12-T43X	Canning for pasteurization control
EBI 12-T46X	Ideal for use in bottles
EBI 12-T22X	Sterilizers, ovens /hot-air sterilizers, freezers and EtO Sterilizers (ATEX)
EBI 12-T24X	Ideal for use in sterilizers, washer disinfectors, freezers and H2O2 Sterilizers
EBI 12-T421	Sterilizers, ovens /hot-air sterilizers, freezers and washer disinfectors
EBI 12-T441	H2O2 and EtO sterilizers, steam sterilizers, freezers and washer disinfectors
EBI 12-T490	Thermal Process Validations in Steam Sterilizers / Autoclaves or Retorts
EBI 12-T690	Heat Distribution or Mapping of autoclaves / retorts that require multiple number of measuring points
EBI 12-T47X	Thermal Process Validations in Steam Sterilizers / Autoclaves or Retorts
EBI 12-T671	Heat Distribution or Mapping of autoclaves / retorts that require multiple number of measuring points



Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater



Validation Data Loggers

EBI 12 Temperature + Pressure Data Loggers

Logger for steam sterilizers, EtO, and washer disinfectors, with pressure sensor and flexible metal probe for fast response.

Features

- Measures temperature, pressure, in vacuum, humidity and conductance
- TÜV certified
- Real-time data transmission
- Wireless measurement
- ATEX types available

Pressure logger	0 °C ... +150 °C 1 mbar ... 4,000 mbar
Low Pressure Logger	0 °C ... +85 °C 0,1mbar ... 1,050 mbar (0.1Torr ... 790Torr)
Humidity Logger	0°C ... +85 °C 0 % rH... 100 % rH

Model	Applications
EBI 12-TP222	Steam sterilizers, EtO and washer disinfectors
EBI 12-TP226	Steam sterilizers, retorts and washer disinfectors.
EBI 12-TP231	Steam sterilizers, retorts and washer disinfectors
EBI 12-TP231-EX	ATEX-Type logger can be used for EtO Sterilizers;
EBI 12-TP322	Standard pressure + temperature data logger but with 2-temperature (bendable metal) probes;
EBI 12-TP422	standard pressure + temperature data logger but with 3-temperature (bendable metal) probes;
EBI 12-TP45X	Standard Pressure + Temperature data logger with 3-temperature (flexible cable) probes;
EBI 12-TP460	ideal for use in limited space / headspace
EBI 12-TPX90	High precision pressure measurement for H2O2 sterilizers



Temperature + Conductivity Data Logger

EBI 12-TC230

Measurements can be taken without interrupting the RDG program sequence. Recommended in combination with the AL 132 flow adapter (available as an accessory).

Features

- Wireless conductivity + temperature logger
- Large measuring range
- 1 external temperature probe
- 1 external conductivity probe

Measuring Range	0°C to 125°C 1 µS/cm .. 2000 µS/cm
Temperature	± 0.2°C
Conductivity	± 0.5 µS (1 µS/cm .. 20 µS/cm) ± 1.0 µS (20.1 µS/cm .. 100 µS/cm) ± 3% of Measured value (100.1µS/cm .. 1500µS/cm) ± 5% of the full scale value

-ebro-



Steam penetration measurement

EBI 16 Alternative Bowie&Dick Test

The EBI 16, combined with Winlog.med software, offers a reliable system for routine steam sterilizer checks, including the Bowie&Dick test (EN 285 / DIN EN ISO 17665).

Features

- Designed for 1.000 cycles or 3 years without recalibration.
- Precise: high-resolution graphic cycle display
- Reliable: clear, reproducible measurement result
- Safe: digital data acquisition and storage

Temperature Range	0°C to 150.0°C
Pressure Range	1 ... 4,000 mbar
Accuracy	± 0.1° C (0°C ... 150°C) / ± 0.15 mbar

-ebro-



Temperature / Humidity Data Logger

EBI 12-TH100-EX

This data logger is for measuring the relative humidity during processing with ethylene oxide. Applicable in hazardous areas.

Features

- Usable with EtO
- 1 external humidity sensor (capacitive)
- 1 external temperature sensor (Pt 1000)
- Combined sensor replaceable

Measuring Range	-20°C to 85.0°C 0 % to 100 % RH
Accuracy	± 2 % (0 to 100% RH)
Temperature	± 0.1° C (0°C ... 150°C)

-ebro-



Thermal Process Monitoring in Bottles

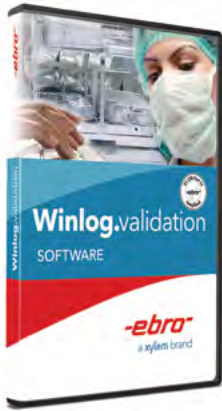
SL 4102

This data logger is for measuring the relative humidity during processing with ethylene oxide. Applicable in hazardous areas.

Features

- Usable with EtO
- 1 external temperature sensor (Pt 1000)
- 1 external humidity sensor (capacitive)
- Combined sensor replaceable

Measuring Range	-20°C to 85.0°C 0 % to 100 % RH
Accuracy	± 2 % (0 to 100% RH)
Temperature	± 0.1° C (0°C ... 150°C)



Validation and Routine Control Software Package

Ebro Winlog.Validation

TÜV-certified software for automated and manual process evaluation. Customize parameters and test criteria as needed.

Features

- TÜV certified software
- DIN ISO/IEC 25051:2014
- Central user management can be saved in the local network
- Automatic report generation
- Automatic user-defined calculations
- Automatic detection of process cycles

The Winlog.validation and Winlog.Pro Software Packages support the following data logger series:

EBI 10, EBI 11 , EBI 12, EBI 16 , EBI 20, EBI 300, EBI 310, EBI 40 , EBI 100

In addition, the following hand-held measuring devices can be integrated:

CT830 , PHT830



Validation and Routine Control Software Package

Ebro Winlog.Pro

Can be used for multiple applications, be it in Food, Pharmaceutical and even for some Medical applications.

Features

- Enables real-time monitoring with WiFi data loggers
- Formula editor for calculating the F0 value, the absolute humidity, the PU value, etc.
- Display of the time axis, either absolute or relative
- Customer-specific definition of individual areas possible (with own statistics and calculations)

The Winlog.validation and Winlog.Pro Software Packages support the following data logger series:

EBI 10, EBI 11 , EBI 12, EBI 16 , EBI 20, EBI 300, EBI 310, EBI 40 , EBI 100

In addition, the following hand-held measuring devices can be integrated:

CT830 , PHT830

Routine Control and Validation Sets

Special Configurations and Starter Sets



Specially bundled starter kit to suit your budget for thermal validation and routine control in food, pharmaceutical and medical or hospital processes, ensuring quality and compliance to regulations.

SK 6100 EBI 12 Starter-Kit	SK 6200 EBI 12 Starter-Kit	SL 2001 Validation Set
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- | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • 1 x EBI 11 T-210 • 1 x Software Winlog.pro • 1 x Interface IF 300 | <ul style="list-style-type: none"> • 1 x EBI 12-T237 • 1 x Winlog.pro software • 1 x Interface IF 200 | <ul style="list-style-type: none"> • 1 x EBI 12-T220 Temperature data logger • 2 x EBI 12-T441 Temperature data loggers • 1 x EBI 12-TP231 Temperature / pressure data logger • EBI IF 200, 4-port Interface with USB connection and antenna • Software Winlog.validation • Carrying case "SYSTAINER" |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SL 2002 Complete Validation Set	SL 3001 Validation-Set	SL 3111 Validation-Set	SL 3302 Complete Validation Set
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| <ul style="list-style-type: none"> • 1 x EBI 12-T220 Temperature data logger • 2 x EBI 12-T441 Temperature data loggers • 1 x EBI 12-TP231 Temperature / pressure data logger • 1 x EBI 12-TC230 Temperature / conductivity data logger • EBI IF 200, 4-port Interface with USB connection and antenna • Software Winlog.validation • Carrying case „SYSTAINER“ | <ul style="list-style-type: none"> • 1 x EBI 12-TP453 pressure/ temperature logger • 1 x Silicone protection box AL 101 • 1 x 4-port interace EBI IF 200 • 1 x Software Winlog.validation • 1 x Carrying case „SYSTAINER“ | <ul style="list-style-type: none"> • 5 x EBI 12-T441 Temperature data loggers • 1 x EBI 12-TP226 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“ | <ul style="list-style-type: none"> • 2 x EBI 11-T235 Mini Temperature data logger, Needle length = 25 mm • 2 x EBI 11-T236 Mini Temperature data logger, Needle length = 80 mm • 1 x EBI 11-P111 Mini Pressure data logger • EBI IF 300, 4-port Interface • Winlog.validation software • 1 x Carrying case SYSTAINER“ |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater

-ebro-



Temperature and/or Humidity
EBI 20 Data Logger

Ideal temperature and relative humidity data loggers for mapping warehouses and storage rooms

Features

- Robust design
- Budget-friendly cold chain monitoring solution
- Operation controllers or QA/QC can easily obtain an up-to-date report.
- FDA 21CFR, Part 11 compliant software
- Large storage capacity or memory
- Calibration certificates included

EBI 20-T1	Temperature data logger with one of the best price-performance ratios. With internal temperature sensor
EBI 20-TE1	Temperature Data Logger with external probe (0.8 m cable length)
EBI 20-TF1	Temperature data logger with external probe up to +100 °C (+212 °F)
EBI 20-TH1	Standard Temperature + Humidity Data Logger with internal humidity and temperature sensor

-ebro-



Continuous and Remote Monitoring System
EBI 25 Data Logger

Wireless and remote measurement of temperature and humidity for enhanced manufacturing and warehouse optimization.

Features

- Runs as stand-alone or in a Network
- FDA 21 CFR Part 11 compliant; secure database
- Limit alarm functionalities with email notifications
- Automatic documentation and report generation
- Worldwide data access
- Third-party sensor integration using Winlog.web

EBI 25-T	With internal temperature sensor for continuous and remote measurement
EBI 25 TE	With external temperature probe for continuous and remote measurement
EBI 25 TX	With external temperature probe for high and low temperatures
EBI 25-TH	With external humidity and temperature sensor for continuous and remote measurement



Quality Control

Thermal Mapping & Validation



Professional version for multiple users

EBI 25 System with IF 400 Base Station

Ebro IF400 Interface connects up to 50 loggers + Ebro Winlog.WEB software and web-based server solution

Features

- Web-based server solution
- FDA 21 CFR Part 11 functionality
- Manages large amounts of data
- IQ/OQ documentation available for qualification
- Flexible and extensive alarm management

Routine Measurement

Water & Wastewater



Winlog.web

Supports EBI 25 Logger Series
Third-party sensors may be integrated in the system:

- Pressure:
- Dissolved CO₂
- CO₂ in air
- O₂
- pH
- Rotation speed
- Optical Density
- Turbidity

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For transport and storage monitoring

EBI 300 (USB) PDF Data Loggers

With USB connection. Monitor the temperature and/or humidity during transport and storage of sensitive goods like medicine, food, serums etc..

Features

- USB interface eliminates need for additional interface
- Complies with GMP and VO (EG) 37/2005
- Conforms with FDA 21 CFR Part 11 and ATP
- PDF reports created at the destination with no additional software required

EBI 330	Single-use temperature data logger for transport / logistics control; tamper-proof
EBI 300	Multi-Use standard version; temperature measurement range can be extended by connecting external probes
EBI 300 TE	Multi-Use with an internal and external temperature probes for flexible core and ambient temperature measurements; probe cable length is 1 meter
EBI 300 TH	Multi-Use with external temperature and humidity probe for %RH monitoring of transport and storage
EBI 310	High-Precision version. Temperature measurement range can be extended by connecting external probes
EBI 310 TE	High-Precision version with internal + external PT1000 precision temperature probes; Probe cables available in 1-meter and 3-meter lengths
EBI 310 TX	High-Precision multi-use with two-temperature channel adapter; internal + external PT1000 precision temperature probes; different probe types available
EBI 310 TH	High-Precision multi-use with external temperature (PT1000) and humidity probe for %RH monitoring of transport and storage

-ebro-



TFH Thermohygrometer

Digital High-Precision Thermohygrometers which simultaneously measure temperature and humidity in various meteorological applications.

Features

- The TFH 620 has MIN/MAX and hold functionality including:
 - Dew Point Calculation
 - Wet bulb temperature calculation
- Robust and shock-proof
- Automatic switch-off when idle
- Approximately 5 years battery life time

TFH 610	Meter with fixed humidity sensor
TFH 620 + TPH 100	Hygrometer with air sensor

ROUTINE MEASUREMENT

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Multi-Parameter Portable Meter
MultiLine® Multi 3510

Digital IDS multi-parameter instrument for up to four parameters: pH/ORP, dissolved oxygen, conductivity and turbidity.

Features

- For applications with digital IDS pH/ORP electrodes, dissolved oxygen sensors, conductivity cells or turbidity sensors
- Calibration records stored in the sensor
- Depth measurement down to 100 m
- Includes the MultiLab® Importer software

Measuring range	Measuring range of the IDS sensor
Measurement channel	1
Protection class	IP 67



Analogue Portable Conductivity Meter
ProfiLine Cond 3310

A combination of robust conductivity pocket meter and data logger to automatically capture and evaluate measured data with the help of a PC

Features

- Professional conductivity handheld meter
- Pure water measurement according to pharmacopeia
- Waterproof USB interface
- Ideal for the capture of large data volumes
- With built-in memory and data logger

Measuring Range	0.001 μ S/cm to 1000 mS/cm
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-ebro-



1-Channel Thermocouple Thermometer
TFN 520 Thermometer

Suitable for a variety of applications, including: Heating technology, Gases, Liquids, Injection molding tools, Motors, Labs and more.

Features

- Robust and impact resistant
- °C/°F selectable
- Battery indication
- Exchangeable battery
- Without probe please order separately

Measuring Range	-200°C to +1,200°C depending on sensor type
Measuring Range	0.3°C (typical accuracy for this meter including sensors)

-ebro-



1-Channel Thermocouple Thermometer for EX-Areas
TFN 530-EX Thermometer

Measure temperature in potentially explosive areas, up to +60 °C. Ideal for production, examination of solvents, fuels, gases, and lab use.

Features

- Without probe please order separately
- Temperature range: -20°C to +80°C
- Environmental temperatures up to +60°C
- Robust and impact resistant
- °C/°F selectable

Measuring Range	-20°C to +80°C
Accuracy	± 0.3°C (Full range)

-ebro-



With Exchangeable PT100 Probes
TFX 430 Reference Thermometer

Temperature measurement device for a whole range of measurement and control applications in the laboratory and in industry.

Features

- With exchangeable Pt 100 probe
- Measurement range: -100 °C to +500 °C (-148 °F ... +932 °F)
- Four-wire measuring system
- Waterproof IP 67
- Battery life approx 5 years

Measuring Range	-100°C to +400°C
Accuracy	"± 0.05°C (-50.0°C... +199.99°C) The accuracy of the connected sensor adds up to ±0.2 °C for the remaining measuring range without factory adjustment"

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater

-ebro-



Conformity-Certified Laboratory Thermometer
TFX 422C Laboratory Thermometer

Supplied with a permanently connected Pt 1000 sensor. Suitable for high-precision temperature monitoring for use in food control and in the laboratory.

Features

- 150 cm silicone cable
- Robust and impact resistant
- High accuracy
- Waterproof IP 67
- According to EN 13485
- Approximately 5 years battery life time

Measuring Range	-50°C to +200°C
Accuracy	± 0.3°C (Full range)

-ebro-



With fixed Pt 1000 probe
TFX 410/420 Core Thermometer

Perfect for various food processing and deep-sample penetration applications, like in brewing Mash Tuns or cooking sauces with critical temperature requirements.

Features

- Robust and impact resistant
- High accuracy
- Waterproof
- Replaceable battery
- Battery life approx. 5 years
- Fixed probe TPX 410, pointed, 60cm silicone cable

Measuring Range	-50°C to +300°C
Accuracy	± 0.3°C (Full range)

-ebro-



With fixed stainless steel Pt 1000 probe
GFX 460 Electronic Contact Thermometer

Suitable for use with magnetic stirrers, hotplates, and laboratories. It can also be used for process monitoring.

Features

- High control accuracy through fuzzy algorithm
- Minimization of temperature overshoots
- Suitable for all magnetic stirrers

Measuring Range	-50°C to +300°C
Accuracy	± 1°C (Full range)

-ebro-



Type T Core Thermometer
TTX 200/210 Series Thermometer

Versatile type T thermometer for precise temperature control in food processing, ensuring safety and quality in cooking and storage.

Features

- External probe with 60 cm silicone cable and handle
- HACCP compliant
- Waterproof housing (IP 65)
- Fast and easy core temperature measurement

Measuring Range	-30°C to +199.9°C
Accuracy	± 0.5°C (-30oC to 100oC)

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater



The YSI Gold Standard

2900D Biochemistry Analyzer

The gold standard in bio-analytical instruments. Measures various chemistries in 96 well plates and microcentrifuge tubes. Cost-effective for diverse applications.

Features

- Analyte specific results in 60 seconds or less
- Proprietary immobilized enzyme electrodes
- Unique fluidics resist clogging
- Trusted measurement technology
- Automated sample handling

Measuring 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
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TSix Chemistry Stand Alone Analyzer

2950D Biochemistry Analyzer

Includes up to 3 biosensor modules. Measures up to 6 parameters providing more flexibility and accuracy.

Features

- Intuitive graphical user interface
- RoHS, CE, ETL certifications
- Accepts test tubes, different vials and vessels, 96 well plates and microcentrifuge tubes

Measuring 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, Methanol: 0.1-2.5 g/L, Lactose: 0.05-25 g/L, Galactose: 0.1-25 g/L
ISE Range	Ammonium: 10-500mg/L, Potassium: 20-1000mg/L



Glucose/Lactate Analyzer

2500 Biochemistry Analyzer

The cost effective alternative to the 2900D Analyzer, supporting identical analytical methodologies for glucose and lactate assays only.

Features

- Analyte-specific results in 60 seconds or less
- Proprietary immobilized enzyme electrodes
- Unique fluidics resist clogging
- Trusted measurement technology
- Automated sample handling

Measuring Range	Glucose: 0.05-25 g/L, Lactate: 0.05-2.70 g/L
Operating Temperature	15-35°C
Precision	Application specific, typical CV <2%



2900M Online Monitor & Control System

YSI 2900 Biochemistry Analyzer with 2960 Online Monitor and Control System Provides a simple and reliable solution for running your bioprocess automatically with little risk of contamination.



Features

- Maintains sterility of process
- Automatic online aseptic sampling for unattended operation
- Autoclavable components for sterilization with your bioreactor
- Connects to process management instruments via RS232, Ethernet, or OPC.
- Searchable database allows you to access your stored results quickly.
- Accurate results in less than 1 minute.

Measuring 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, Methanol: 0.1-2.5 g/L, Lactose: 0.05-25 g/L, Galactose: 0.1-25 g/L

Add-on Module for YSI 2900/M Series



2920 OPC Data Manager

Includes an internal web server for convenient remote access via a web browser. YSI's OPC data management ensures easy connectivity and data solutions for bioreactors, labs, or suites.



Features

- Internal web server
- Sleek, modular design
- Remote access using IP address and web browser
- Performs extensive error tracking and management
- Requires YSI 2925 OPC Server Software

Equipment used with YSI 2900M, 2900D, 2950

Compliance OPC Data Manager: CE, RoHS, FCC
Power Supply: UL, IEC, CE, RoHS



4/8 Channel Online Monitor Systems

2940/ 2980 Multi-Channel Online Monitor

For multiple and parallel bioreactor systems. Closed-loop monitoring and control capabilities are easily achieved for any scale of operation or type of bioreactor, including single-use systems.



Features

- Automated, aseptic sampling of up to 8 vessels
- Analytical results in 60 seconds for each chemistry
- Automated cleaning cycle
- Autoclavable components
- CIP and SIP compatible
- Connectivity options for SCADA, DAS, LIMS, and feed-control systems

Analog Output

"2940: 4 ports (1 port per vessel)
2980: 8 ports (1 port per vessel)
Each port capable of communicating up to 2 chemistries"

Equipment used with YSI 2900D, 2950D

WATER & WASTEWATER

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Multi-Purpose Spectrophotometer
photoLab® 7100 VIS

A unique combination of systematic and spectral analysis in this spectrophotometer class: versatile for water analysis, wine, research, and education.

Features

- More than 250 test programs for water analysis, galvanics and general lab analytics
- Barcode support and automatic cuvette recognition
- Standard methods such as UVT, SAC, coloration or chlorophyll
- Comprehensive programming opportunities

Wavelength	320 - 1100 nm
Wavelength accuracy/reproduceability	± 1 nm / < 0,5 nm
Memory	5000 measurement values, spectra and kinetics approx. 40 MB => 500 spectra (300-900 nm) and 400 kinetics with 150 measurement values,



Universal Spectrophotometer
photoLab® 7600 UV-VIS

From well-proven routine analysis to spectral analysis with pioneering procedure OptRF for reagent-free measurement of COD, Nitrate and Nitrite

Features

- Optical reagent-free (OptRF)
- Menu-guided operation
- Application support from chlorophyll to wine
- Faster than the fastest digestion
- UVT and SAC as well as comprehensive color measurement are supported

Wavelength	190 - 1100 nm
Wavelength accuracy/reproduceability	± 1 nm / < 0,5 nm
Memory	5000 measurement values, spectra and kinetics approx. 40 MB => 500 spectra (300-900 nm) and 400 kinetics with 150 measurement values,

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater



Portable, Multiparameter Photometer

9800 Photometer

Streamlines water quality analysis through easy, step-by-step instructions for dozens of parameters on a large, portable, touchscreen display.

Features

- Measures over 30 water quality parameters
- USB connectivity and 1000 data set memory
- Longer-lasting battery life (up to 5,000 tests per set)
- Field-ready housing is impact tested, waterproof, and chemical & scratch resistant
- User-selectable options for test units, sample numbers, and dilution factors

Wavelength	430 nm, 465 nm, 530 nm, 575 nm, 620 nm
Accuracy	± 1%T (transmission)
Memory Capacity	1,000 data sets



Portable Colorimeter

pHotoFlex® STD

A portable colorimeter with six wavelengths for routine analytics in mobile labs that offers optional GLP-compliant data management and barcode use via labstation.

Features

- Multitude of test kits; from lot-certified cuvettes to economic powder reagents
- More than 180 programs for standard parameters
- Fixed adapter for two vial sizes
- More than 160 water quality testing methods, 10 user-defined methods, and storage of 100 data sets.

Wavelength	436, 517, 557, 594, 610, 690 nm
Wavelength accuracy/reproduceability	< 2 nm wavelength precision, 0.005 abs. reproducibility
Memory	100 measurements



pH- and ORP-Measurement
pHotoFlex® pH

A portable LED colorimeter with a full value pH/ORP function. It can be used for environmental monitoring, aquaculture, routine, and water analysis.

Features

- With integrated pH function that can measure pH 0-16 with automatic buffer recognition
- More than 180 programs for standard parameters
- Smart adapter for wide range of test kits, vias and measurement concentrations
- Versatile with special methods NH₃, CO₂, color

Wavelength	436, 517, 557, 594, 610, 690 nm
Wavelength accuracy/reproduceability	< 2 nm wavelength precision, 0.005 abs. reproducibility ±0.01 pH
Memory	1000 measurements



Multi-Parameter Colorimeter
pHotoFlex® Turb

A portable multi-parameter LED filter photometer with full electrochemical pH function and integrated IR turbidity measurement .

Features

- With 6 wavelength, full value pH, ORP and normative standard turbidity measurement
- More than 180 programs for standard parameters
- Versatile with special methods NH₃ and CO₂
- Turbidity measurement of 0.01 - 1,100 NTU according to DIN ISO 27027

Wavelength	436, 517, 557, 594, 610, 690 860 nm
Wavelength accuracy/reproduceability	< 2 nm wavelength precision, 0.005 abs. reproducibility ±0.01 pH
Memory	1000 measurements

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater



Portable Turbidity Meter
Turb® 430 IR/T

Nephelometric turbidity measurement. Suitable for water analysis, control, such as fuel, cell cultures, food and beverage industries and (health) administration surveillance.

Features

- Highest precision according to US EPA 180.1.
- Measuring range comprises 0.02 -1100 NTU/FNU with automatic measuring range switching
- AQA: Calibration interval setting and GLP-compliant documentation
- Stray light behavior according to pharmacopoeia 5.0

Turb® 430 IR	Wavelength Accuracy: Max. 0.01 for 0.01 -9.99 Memory: ± 2 % of the measured value or ± 0.01 FNU/NTU Display: IR LED
Turb® 430 T	Wavelength Accuracy: Max. 0.1 for 10.0 -99.9 Memory: ± 2 % of the measured value or ± 0.01 FNU/NTU Display: Tungsten



IR Benchtop Turbidimeter
Turb® 750 IR/T

Fulfills the demands of many lab and industrial applications for a AQA supported turbidity measurement up to 1100 FNU/NTU.

Features

- Well proven WTW® optics with fast data output
- Multiple measurement and data evaluation with Intelligent
- Invincible price-/performance ratio
- Bench-saving despite comprehensive functionality
- Reproducibility and Plausibility Check (IRPC)

Turb® 750 IR	Wavelength Accuracy: 0.01 for 0-9.99 Memory: 0.01 NTU/FNU or ± 2% of value Display: LED 830-890 nm acc. to DIN EN ISO 7027-1
Turb® 750 T	Wavelength Accuracy: 0.1 for 10.0-99.9 Memory: 0.01 NTU or ± 2% of value; 500-1100 NTU: ±3% of value Display: Tungsten filament lamp



Portable COD Colorimeter
910 COD Colorimeter

Rugged, waterproof, single parameter instrument for the measurement of COD (chemical oxygen demand). Ideal for any application.

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 prevents moving parts or separate pieces that can easily be broken or lost
- User-calibration to any government or organizational standard (for example N.I.S.T. or ISO)

Measurement Range	Chlorine Free: 0.02 to 2.0 mg/L Chlorine Total: 0.1 to 8.0 mg/L
Memory	16 data sets with date and time stamp, automatic
Power	Approximately 17 continuous hours or 5,000 tests, 4 alkaline AAA batteries



Portable Chlorine Colorimeter
900 Free and Total Chlorine Colorimeter

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

- Large, backlit LCD display
- Automatic data storage; 16 data-sets with date and time stamp
- IP68 waterproof case; easy to hold or set on benchtop; floats
- Innovative light shield prevents moving parts or separate pieces that can easily be broken or lost
- User-calibration to any government or organizational standard (for example N.I.S.T. or ISO)

Measurement Range	Chlorine Free: 0.02 to 2.0 mg/L Chlorine Total: 0.1 to 8.0 mg/L
Memory	16 data sets with date and time stamp, automatic
Power	Approximately 17 continuous hours or 5,000 tests, 4 alkaline AAA batteries

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater



Respirometric BOD Measuring System
OxiTop®-i IS

Designed for self-check BOD measurement with undiluted samples (according to DIN EN 1899 -2) at measuring ranges up to 4000 mg/L.

Features

- No need to convert data - direct input of sample volume
- Most reliable results - display of the curve at the head
- Direct display of the BOD value at the measuring head

Measurement Range	Up to 4000 mg/L BOD possible
Display Type	Backlit Graphic LCD
Includes	Two colour OxiTop™-i measuring heads



Wireless BOD Measuring Heads
OxiTop®-IDS

The OxiTop®-IDS can be used for aerobic measuring and BOD self check measurements. It can also measure biogas and microbiology (aerobic and anaerobic).

Features

- For large sample amounts - up to 12 parallel samples
- Memory for 360 measuring points.
- For routine BOD also operable without IDS multiparameter instrument

Pressure range (hPa)	500 to 1250
Measuring Period	0.5 hours to 180 days
BOD range	0 to 400000 mg/l



Thermostatic Cabinets for OxiTop®
Thermostatic Cabinets TS

For the incubation of respirometric samples at constant temperatures between 10° and 40°C - cost efficient and energy efficient

Features

- Temperature adjustable in steps of 1 K between 10° and 40 °C
- Suited for BOD, OECD 301F, soil respiration, anaerobic degradation
- Models with glass doors for visual control
- Cost-effective solution for respirometric test procedures

Volume	180 Litres
Temperature stability	±0,5 K



Multi Parameter Benchtop Instrument
MultiLab BOD Lab Kit

The YSI MultiLab BOD Lab Kit is a benchtop meter that can accurately measure pH, ORP, conductivity, BOD, and ion activity in a laboratory setting.

Features

- Single channel input for pH, ORP, optical-based DO/BOD, or conductivity
- Data storage for 500 data sets
- Menu-driven operation
- Easy to use and calibrate
- Connect digital intelligent digital sensors (IDS)

MultiLab BOD Lab Kit:	MultiLab 4010-1W and OBOD probe
MultiLab Advanced BOD Lab Kit:	MultiLab 4010-1W, OBOD probe, and BOD Analyst Pro PC software



Multi Parameter Benchtop Instrument
MultiLab BOD/pH Lab Kit

The YSI MultiLab BOD/pH Lab Kit is a dual channel input benchtop meter that can measure BOD, pH, ORP, or conductivity.

Features

- For the measurement of BOD, pH, ORP, or conductivity.
- 2 Channel measuring input
- Data storage for 500 data sets
- Menu-driven operation
- Easy to use and calibrate
- Connect digital intelligent digital sensors (IDS)

MultiLab BOD/pH Lab Kit:	MultiLab 4010-2W, OBOD probe, and pH electrode (dual junction combination electrode with integrated temperature sensor)
MultiLab Advanced BOD/pH Lab Kit:	MultiLab 4010-2W, OBOD probe, BOD Analyst Pro PC software, and pH electrode (dual junction combination electrode with integrated temperature sensor)

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater



Digital Multiparameter Benchtop Meter

inoLab® Multii IDS 9310, 9620, 9630

highly suitable for digital measurements of pH, ORP, dissolved oxygen (optical), BOD, conductivity and turbidity in the lab.

Features

- Wireless ready - convenient for under laboratory hoods or laminar flow benches.
- Smart sensor evaluation
- Digital sensor recognition
- Uncompromised measuring accuracy

9310 IDS	single channel input
9620 IDS	simultaneously measure two parameters
9630 IDS	simultaneously measure three parameters



pH/ISE Benchtop Meter

inoLab® pH/ION 7320

A two-channel benchtop meter that can measure pH, ion, or ORP simultaneously and accurately. It can also measure pH, ISE, or Redox with precision.

Features

- With enhanced ISE methods for concentration measurement with ion selective electrodes.
- up to 7-point calibration with ion measurement, also non-linear
- up to 5-point calibration for pH
- Simultaneous measurements of pH, ion concentration or ORP

Parameter	pH/mV/Temp/ISE
Measuring range pH	-2.000 ... 19.999
Measuring range Temperature	-5.0 ... 105.0 °C



Analog pH Lab Benchtop Meter

inoLab® pH 7310

Precise pH and ORP meter with documentation function to use in quality assurance, pharmaceutical industry and everywhere GLP-supported documentation is required.

Features

- Repeatable measuring results by automatic recognition of stable values
- Secure and convenient operation via text menus in a bright graphic display
- Monitoring of the optimum measuring range via CMC function
- Ideally suited for applications in quality assurance laboratories in all industries to support documentation according to GLP

Parameter	pH/mV/Temp
Measuring range pH	-2.000 ... 19.999
Measuring range Temperature	-5.0 ... 105.0 °C



Simple pH Lab Benchtop Meter
inoLab® pH 7110

Simple, easy-to-use lab pH meter for the routine measurement with reproducible measuring results and increased measuring accuracy.

Features

- Repeatable measuring results by automatic recognition of stable values
- Secure operation: Automated functions reduce the number of keys
- Increased measuring accuracy by calibration timer with periodic reminders for calibration

Parameter	pH/mV/Temp
Measuring range pH	-2.000 ... 19.999
Measuring range Temperature	-5.0 ... 105.0 °C



Conductivity Benchtop Meter
inoLab® Cond 7110

Compact, well-equipped conductivity benchtop meter for two and four electrode cells for routine measurements without documentation.

Features

- Suitable for pure water measurements according to pharmacopeia
- Wide range of applications with standard and special measuring cells
- Easy calibration including calibration timer
- AutoRead function ensures repeatable results

Parameter	Conductivity/Salinity/spec. resistivity, TDS
Conductivity	0.001 µS/cm ... 1000 mS
Salinity	0.0 ..70.0‰



Dissolved Oxygen Benchtop Meter
inoLab® Oxi 7310

High performance dissolved oxygen measuring device for environmental areas (BOD) and industrial applications such as pharmaceutical research, beverage and food.

Features

- Application-specific oxygen measurement using three selectable oxygen sensors
- Precise measurements using automatic air pressure compensation
- Documentation of all data via USB interface or optional built-in printer - quickly and error-free
- Measures partial pressure, concentration and saturation

Parameter	pH/mV/Temp
Measuring range pH	-2.000 ... 19.999
Measuring range Temperature	-5.0 ... 105.0 °C



Portable Multi-Parameter Meter
MultiLine® Multi IDS
3630, 3620, 3510

Professional wireless-ready, with multi channel input. Works with all WTW IDS pH, ORP, dissolved oxygen sensors, conductivity cells and turbidity sensors no matter if connected via cable or wireless module.

Features

- For pH, ORP, dissolved oxygen, conductivity and turbidity
- Digital sensor detection
- Wireless ready
- Batteries can be charged directly in the device

3630 IDS	3 universal measuring channels
3620 IDS	2 universal measuring channels
3510 IDS	1 universal measuring channel



Portable pH Meter
ProfiLine pH 3310

The best choice for a robust portable meter and a data logger for storing measuring batches and processing those via PC.

Features

- 22 stored buffer sets for easy calibration
- 100% waterproof USB interface
- Fast data transfer to laptop or PC
- Interval controlled datalogging function for up to 5000 records

pH	-2.0...20.0 ± 0.1 pH -2.00...20.00 ± 0.01 pH -2.000...19.999 ± 0.005 pH
mV	"±1200.0 ± 0.3 mV ± (2500.0 ± 1) mV"
Temperature	-5.0 ... +105.0 ± 0.1 °C



Portable Conductivity Meter
ProfiLine Cond 3310

The versatile Cond 3310 is designed for conductivity measurements in changing media with different 2 and 4 pole measuring cells.

Features

- Data output in .csv format
- 5000 GLP-compliant record memory for extended data collection
- Integral, time controlled, data logger
- Waterproof USB interface for fast data transfer

Conductivity	0.0...1000 mS/cm ± 0,5 % of value 0.000...1.999 µS/cm (for K=0.01 cm-1) 0.00...19.99 µS/cm (for K=0,1 cm-1)
Temperature	-5.0 °C...+105.0 °C ± 0.1 °C (23...221 °F)
Salinity	0.0...70.0 (according to IOT)



Portable Conductivity Meter
ProfiLine Cond 3110

Reliable conductivity meter with automatic nIF temperature compensation according to DIN EN 27888 for routine measurements in natural waters and wastewater

Features

- Automatic temperature compensation nIF
- Salinity measurement
- Easy operation (also with gloves)
- Robust and waterproof

Conductivity	0.0...1000 mS/cm ±0,5 % of value
Temperature	-5.0 °C...+105.0 °C ±0.1 °C (23...221 °F)
Salinity	0.0...70.0 (according to IOT)



Portable Dissolved Oxygen Meter
ProfiLine Oxi 3310

Professional, field proven DO meter for digital IDS DO sensors with backlit graphic display for portable application including data logger and USB interface.

Features

- Transfer of all data in .csv format via USB interface to PC, on demand formatted transfer into Excel
- Automatic air-pressure compensation
- Waterproof USB interface
- Salinity corrections

Concentration	0.00...20.00 mg/l (20.0 mg/l*) ±0.5 % of value; 0...90 mg/l ±0.5 % of value
Saturation	0.0...200.0 % (200 %*) ±0.5 % of value; 0...600 % ±0.5 % of value
Partial pressure	0.0...200.0 mbar (200 mbar*) ±0.5 % of value, 0...1250 mbar ±0.5 % of value



Professional Dissolved Oxygen Pocket Meter
ProfiLine Oxi 3205

Professional dissolved oxygen pocket meter with mini USB interface for mobile applications or routine measurements with documentation

Features

- Easy-to-use with simplified keypad
- Backlit graphic display for measurements in all lighting conditions
- For alle galvanic D.O. sensors except StirrOx
- Robust and waterproof (IP 67)

Concentration	0.00 ... 90 mg/l
Saturation	0.0 ... 600 %
Partial pressure	0.0 ... 1250 hPa

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater



Multi-Parameter Portable Meter

ProfiLine Multi 3320

Universal multi-parameter pocket meter with two inputs for pH, mV, ISE, conductivity and dissolved oxygen determination in environmental applications.

Features

- Built-in memory and data logger
- Simultaneous measurement, display and storing of up to two parameters
- Measuring functions for pH, ORP, ISE, conductivity and dissolved oxygen
- Robust and waterproof

pH	-2.000 ... +19.999 pH
mV	-2500 ... +2500
ISE	0.000 ... 999999 (mg/l, µmol/l, mg/kg, ppm, %)
O2-Concentration	0.00 ... 20.00 mg/l 0.0 ... 90.0 mg/l



Multi-Parameter Portable Meter

ProfiLine pH/Cond 3320

Universal multi-parameter portable meter with two inputs for pH, mV, ISE and conductivity measurements for demanding applications.

Features

- Two inputs for the simultaneous measurement of pH/mV/ISE and conductivity
- Perfect for monitoring process applications
- Backlit graphic display
- All entries contain GLP-supporting data

pH	-2000 ... +19.999 pH
mV	-2500 ... +2500
ISE	0.000 ... 999999 (mg/l, µmol/l, mg/kg, ppm, %)
Conductivity	0, .000 µS/cm ... 1000 mS/cm



ProfiLine pH/ION 3310

A precise, portable pH/mV/ISE pocket meter with lit background graphic display and manual memory for safe and convenient measurements.

Features

- Ion-selective measurements
- Built-in data memory for 5000 GLP-compliant entries
- Logging intervals between 1 second and 60 minutes

pH	-2000 ... +19999 pH
mV	-2500 ... +2500
ISE	0.000 ... 999999 (mg/l, µmol/l, mg/kg, ppm, %)



Multiparameter Water Quality Instrument

ProDSS

Provides extreme flexibility with two main cable options. Choose between the fully loaded 4-port cable assembly outfitted with any four DSS sensors (with depth or no depth) or the ODO/CT probe and cable

Features

- Choose from 21 parameter options to create your perfect system.
- Universal sensor ports of the ProDSS cable accept any combination of digital smart sensors.
- Single cable design with lengths up to 100 meters.
- Digital Smart Sensors for fast, easy setup and storage, and highest quality data.

Water Quality Parameters	
Dissolved Oxygen (optical)	Seawater Density
Turbidity	Total Suspended Solids (TSS)
Total Algae-Phycocyanin	Depth
Total Algae-Phycoerythrin	GPS Coordinates
pH	Ammonium
ORP/Redox	Ammonia
Conductivity	Chloride
Specific Conductance	Nitrate
Salinity	Temperature
Total Dissolved Solids (TDS)	Barometric Pressure
Resistivity	



Multiparameter Water Quality Instrument

ProQuatro

Combine 4 sensors on a single cable for comprehensive multiparameter sampling to measure temperature/ conductivity, DO, and any two ISEs among pH, ORP, ammonium, chloride, or nitrate.

Features

- Measurements for 13 major parameters.
- 5,000 data set memory, password protection, and a USB connection that can power the instrument.
- IP-67 waterproof case, rugged cables and sensors, and military-spec connectors.

Water Quality Parameters	
Dissolved Oxygen (optical)	Seawater Density
Turbidity	Total Suspended Solids (TSS)
pH	Ammonium
ORP/Redox	Ammonia
Conductivity	Chloride
Specific Conductance	Nitrate

Quality Control

Thermal Mapping & Validation

Routine Measurement

Water & Wastewater

DO Electrodes



Model	CellOx® 325	DurOx® 325	StirrOx® G	FDO® 925 (Optical IDS)
Usage	General spot sampling	General spot sampling	Self-stirring dissolved oxygen sensor for BOD measurement	General spot sampling
Measurement range	0~50 mg/l O ₂ concentration	0~50 mg/L	0~50 mg/L	0.00~20.00 mg/L
Temperature	0~50 °C	Low flow rate (2.5~5 cm/sec)	BOD Built-in stirrer	No calibration No stirring needed



pH Electrodes



Model	Sentix 41	Sentix 81	Sentix 940 (Digital IDS)	Sentix 980 (Digital IDS)
Usage	Routine measurement	For lab measurements	Mobile measurement	For lab measurements
Measurement range	0~14 pH	Gel	0~14 pH	0~14 pH
Temperature	0~80 °C	0~100 °C	0~80 °C	0~100 °C
Reference electrolyte	Gel	Glass	Gel	Glass

Conductivity Electrodes



Model	TetraCon® 925 (Digital IDS)	TetraCon® 325 C/S
Usage	Routine measurement	For application in acidic environments
Measurement range	1 µS/cm up to 2000 mS/cm	1 µS/cm up to 2000 mS/cm
Temperature	0~100 °C	Low flow rate (2.5~5 cm/sec)
Reference electrolyte	Graphite	Head made of PEEK

Quality Control

Thermal Mapping & Validation

Routine Measurement

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Automated Wet Chemistry Analyzer

Flow Solution 3700

Multiparameter benchtop instrument that measures critical parameters like ammonia, nitrate, nitrite, phosphorous and silica, TKN, and more.

Features

- Interchangeable chemistry cartridges
- Plug-n-play detectors
- Easy-to-use software
- A variety of validated EPA, ASTM, and standard methods

Range	0.01-20 mg/L ammonia as nitrogen
Rate	51 samples/hour
Precision	1% RSD at mid-point of range



Dual Mode TOC Analyzer

Aurora 1030D

Perform both high temperature combustion and heated persulfate wet oxidation on the same instrument. Designed to help laboratories maximize efficiency.

Features

- Optional second oxidation chamber supports concurrent sample processing.
- 88-position rotary autosampler fits directly underneath the 1030W to conserve bench space.
- Multi-stream sampling module for at-line monitoring of up to four process streams.

Range	10 ppb C - 30,000 ppm C (multiple calibration ranges or dilution required)
IDL	2 ppb C



Wet Oxidation TOC Analyzer

Aurora 1030W

Includes instrument configurations for laboratory and process monitoring, employing 100 °C persulfate wet oxidation or thermal combustion techniques.

Features

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

Range	10 ppb C - 30,000 ppm C (multiple calibration ranges or dilution required)
IDL	2 ppb C
Sample Injection Volume	10µL - 10mL



High-Temperature Combustion TOC Analyzer

1080 TOC

Uses high-temperature (680 °C) catalytic combustion to oxidize and convert organic compounds present in aqueous samples to CO₂ for measurement by a solid-state, non-dispersive infrared detector (SS-NDIR)

Features

- LIMS connectivity
- Solid-State Non-Dispersive Infrared Detector (SS-NDIR)
- Electronic Pressure Control (EPC)
- Less maintenance and longer instrument life with both the Catalyst Guard® and the Smart Slide Injector®

Range	50 ppb C - 2,000 ppm C (multiple calibration ranges or dilution required)
Furnace Temperature	Adjustable, 680 °C in 1°C increments - 720 °C for TNb
Sample Injection Volume	10µL - 2.0 mL



Selective VOC Analyzer

THM 1000 Analyzer

THM 1000 helps optimize water treatment and evaluate water age for improved monitoring of the formation of THMs.

Features

- 30-minute analysis
- Integrated Purge & Trap
- Rapid operator feedback
- Push-button simplicity

Water Sample Volume	40 mL
Range	5 to 80 ppb for each THM compound
Carrier Gas	UHP grade helium

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 advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. 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 with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com

