

Water Quality Meters

WTW MultiLine® 3400 Series IDS Meters

These new multi-parameter systems have IDS (Intelligent, Digital Sensors) sensors for pH, dissolved oxygen and conductivity measurement.

The signal processing is completely located in the sensor, and the measuring signal is transmitted to the meter without interference in a clearly identifiable manner via thin, high strength cables. A wide range of sensors are available for virtually every application.

There are 3 models; with one, two or three universal channels that measure every parameter either sequentially or simultaneously. Every model possesses a brilliant color graphic display, two USB interfaces (USB-A and Mini-USB), and rechargeable batteries that can be charged directly in the device.

FEATURES

- Intelligent sensors store an ID
- Digital processing and data transfer of sensor measurement
- Brilliant high resolution TFT color display
- Simultaneous display of one, two or three parameters
- Optical support of important maintenance and measuring function
- Field proven housing with rubber boot (set), waterproof to IP-67
- Robust and waterproof keypad
- Error-free operation, even when wearing gloves
- Waterproof quick-lock sensor connection
- Datalogger for GLP compliant data
- Data transfer directly to USB stick or selected printers
- Mini USB data transfer to PC or for firmware update



Multi 3410 IDS

Multi 3420 IDS

Multi 3430 IDS

MULTILINE 3400 SERIES MODELS

Multi 3410 IDS

Professional digital multi meter for portable field measurement, with single channel input, color graphic display including data logger and USB interfaces. Single instrument with short instruction manual, CD-ROM, rechargeable batteries, driver software for USB, cable and universal power supply.

- 1 Channel
- 3 Parameters
- High resolution color graphic display
- Safe data transmission to USB stick
- Turbidity measurement with the VisoTurb® 900-P

Multi 3420 IDS

Professional digital multi meter for portable field measurement, with dual channel input, color graphic display including data logger and USB interfaces. Single instrument with short instruction manual, CD-ROM, rechargeable batteries, driver software for USB, cable and universal power supply.

- 2 Channels
- 3 Parameters in any combination
- High resolution color graphic display
- Safe data transmission to USB stick
- Turbidity measurement with the VisoTurb® 900-P

Multi 3430 IDS

Professional digital multi meter for portable field measurement, with triple channel input, color graphic display including data logger and USB interfaces. Single instrument with short instruction manual, CD-ROM and rechargeable batteries, driver software for USB, cable, universal power supply, armoring SM Pro.

- 3 Channels
- 3 Parameters in any combination
- High resolution color graphic display
- Safe data transmission to USB stick
- Turbidity measurement with the VisoTurb® 900-P

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

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WTW MultiLine® 3400 Series IDS Meters

METER SPECIFICATIONS

General

Memory	Automatic, 10000 data sets
Datalogger	Manual/Time controlled
Interface	USB host and Mini-USB
Power Supply	Battery charger or 4 x 1.2 V NiMH Rechargeable
Continuous	100 h
Protection Class	P-67

pH Measurement

pH	-2.0 – 20.0 pH -2.00 – 20.00 pH -2.000 – 20.000 pH
mV	±2000, ±1250.0
Temperature	-5.0° – 105.0°C
AutoRead	Automatic/Manual
CMC	Yes
QSC	Yes
Calibration	1-, 2-, 3-, 4-, 5-point; WTW Technical, DIN/NIST, additionally 22 buffer sets
Calibration Memory	Up to 10 calibrations

Conductivity Measurement

Conductivity	0.0 – 2000 mS/cm
Additionally	0.00 – 19.99 µS/cm, K = 0.1 cm ⁻¹
Spec. Resistivity	0.00 – 20 MΩ cm
Cell Constants	Automatic
Salinity	0.0 – 70.0 (acc. IOT)
TDS	0 – 1999 mg/l, 0 – 199.9 g/l
Temperature	-5.0° – 105.0°C
AutoRead	Automatic/Manual
Tref	20°C/25°C
Temp. Compensation	Non, nF, 0.000 – 10.000%/K
Calibration Memory	Up to 10 calibrations

D.O. Measurement (Optical)

Concentration	0.00 – 20.00 mg/l
Saturation	0.0 – 200.0%
Partial Pressure	0 – 400.0 hPa
Temperature	0.0° – 50.0°C
AutoRead	Automatic/Manual
Calibration Memory	Up to 10 calibrations
Barometric Sensor	Built-in

SENSOR SPECIFICATIONS

IDS pH sensors

	SenTix® 940	SenTix® 940-3	Sensolyt® 900-P	SenTix® 950	SenTix® 980	Sensolyt® ORP 900-P
Meas. Range pH	0.000 – 14.000 ±0.004		2.000 – 12.000 ±0.004	0.000 – 14.000 0° – 100°C		mV: ±1200.0 ±0.2
Temp. Range	0° – 80°C	0° – 80°C	0° – 60°C	0° – 80°C	0° – 100°C	0° – 60°C
Ref. Electrolyte	Gel	Gel	Polymer	3 mol/l KCl	3 mol/l KCl	Polymer
Membrane Type	Cylindrical	Cylindrical	Cylindrical	Cylindrical	Cone	Cylindrical
Junction	Fiber	Fiber	Hole	Ceramic	Platinum Wire	Hole
Shaft Material	Plastic	Plastic	Glass	Plastic	Glass	Glass
Shaft Dimensions	Length 120 mm ±2 mm, Ø 12 mm ±0.5 mm					
Temp. Accuracy	±0.2°C					
Cable Length	1.5 m	3 m	Plug Head	1.5 m	1.5 m	Plug Head

IDS Conductivity Cells

	TetraCon® 925	TetraCon® 925-3	TetraCon® 925-P	LR 925/01
Type	4-Electrodes, Graphite			2-Electrodes, Stainless Steel
Conductivity	10 µS/cm – 2000 mS/cm ±0.5% of value			0.01 – 200 µS/cm ±0.5% o.v.
Spec. Resistivity	0.5 Ohm cm – 100 kOhm cm ±0.5% of value			5 kΩ – 100 MΩ ±0.5% o.v.
Salinity	0.0 – 70.0 ±0.5% of value			–
TDS	0 – 1999 mg/l, 0.0 – 199.9 g/l ±0.5% of value			–
Temperature	0 – 100.0°C ±0.2°C			
Shaft Material	Epoxy			Stainless Steel
Shaft Dimensions	Length 120 mm ±1 mm, Ø 15.3 mm ±0.2 mm			120 ±1 mm, Ø 12 ±0.2 mm
Cable Length	1.5 m	3 m	Plug Head	1.5 m

IDS D.O. Sensors

	FDO 925	FDO 925-3	FDO 925-P
Concentration	0.00 – 20.00 mg/l ±0.5% of value		
Saturation	0.0 – 200.0% ±0.5% of value		
Partial Pressure	0.0 – 400 hPa ±0.5% of value		
Temperature	0 – 50.0°C ±0.2°C		
Membrane Type	Bevelled		
Shaft Material	POM, Stainless Steel		
Shaft Dimensions	Length 140 mm ±1 mm, Ø 15.3 mm ±0.2 mm		
Cable Length	1.5 m	3 m	Plug Head

Given accuracy corresponds with accuracy of sensor electronics.

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WTW MultiLine® 3400 Series IDS Meters

ORDERING INFORMATION

Model	Description
Multi 3410	Professional digital multi meter for portable field measurement, with single channel input, color graphic display including data logger and USB interfaces. Single instrument with short instruction manual, CD-ROM, rechargeable batteries, driver software for USB, cable and universal power supply.
Multi 3410 SET 1	Professional digital multi meter for portable field measurement, with single channel input, color graphic display including data logger and USB interfaces. Case set with digital IDS pH electrode SenTix® 940, QSC Kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro.
Multi 3410 SET 4	Professional digital multi meter for portable field measurement, with single channel input, color graphic display including data logger and USB interfaces. D.O. case set with optical IDS D.O. probe FDO® 925, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro
Multi 3410 SET 7	Professional digital multi meter for portable field measurement, with single channel input, color graphic display including data logger and USB interfaces. Conductivity case set with digital IDS 4-electrode conductivity cell TetraCon® 925, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro.
Multi 3420	Professional digital multi meter for portable field measurement, with dual channel input, color graphic display including data logger and USB interfaces. Single instrument with short instruction manual, CD-ROM, rechargeable batteries, driver software for USB, cable and universal power supply.
Multi 3420 SET C	Professional digital multi meter for portable field measurement, with dual channel input, color graphic display including data logger and USB interfaces. Multi case set with IDS sensors: digital pH electrode SenTix® 940, digital conductivity 4-electrode cell TetraCon® 925, QSC Kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro.
Multi 3420 SET G	Professional digital multi meter for portable field measurement, with dual channel input, color graphic display including data logger and USB interfaces. Multi case set with IDS sensors: digital pH electrode SenTix® 940-3, digital conductivity cell TetraCon® 925-3, optical D.O. probe FDO® 925-3, QSC Kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro.
Multi 3430	Professional digital multi meter for portable field measurement, with triple channel input, color graphic display including data logger and USB interfaces. Single instrument with short instruction manual, CD-ROM and rechargeable batteries, driver software for USB, cable, universal power supply, armoring SM Pro.
Multi 3430 SET F	Professional digital multi meter for portable field measurement, with triple channel input, color graphic display including data logger and USB interfaces. Large multi case set with IDS sensors: digital pH electrodes SenTix® 940, digital conductivity cell TetraCon® 925, optical D.O. probe FDO® 925, QSC Kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro.
Multi 3430 SET G	Professional digital multi meter for portable field measurement, with triple channel input, color graphic display including data logger and USB interfaces. Large multi case set with IDS sensors: digital pH electrode SenTix® 940-3, digital conductivity cell TetraCon® 925-3, optical D.O. probe FDO® 925-3, QSC Kit, short instruction manual, stand, beaker, CD-ROM, driver software for USB, rechargeable batteries, cable, universal power supply, armoring SM Pro.



Set in a Field Case with Multi 3430 IDS meter and IDS pH, Cond, and DO sensors



Set in Small Carry Case with Multi 3410 IDS meter and IDS pH sensor



IDS pH Electrodes

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