

Multi

Multi-Meters

Multi-Parameter Instruments

pH, Oxygen and Conductivity Measurements

Multi-parameter Instruments

With simultaneous function for pH, ORP, Dissolved Oxygen, Conductivity, Salinity and Temperature, these small and compact meters are complete laboratories themselves. WTW multiparameter instruments solve the problem of multiple electrode interference by utilizing our advanced sensor technology. It is now possible to measure oxygen, conductivity and pH simultaneously in the same sample vessel or field location.

Long battery life or optional line adaptors allows WTW's Multiparameter instruments to be used either in the laboratory or in the field. The datalogging function insures accurate reporting. Our standard automatic documentation storage, user defined calibration procedures and GLP functions provide comprehensive quality assurance.

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ADVANCED APPLIED TECHNOLOGIES

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● recommended by WTW ○ conditionally applicable – not recommended

Application Range	inoLab®					Profi-Line	Handheld Meters			
	pH/Cond 720	Multi 720	pH/Cond 740	Multi 740	pH/ION/Cond 750	Multi 197i	pH/Cond 340i	pH/Oxi 340i	Multi 340i	Multi 350i
Routine measurement	●	●	○	○	○	–	○	○	–	○
Routine measurement with documentation	–	–	●	●	●	●	●	●	●	●
AQA with documentation	–	–	●	●	●	●	●	●	●	●
R&D high precision	–	–	●	●	●	–	–	–	–	●
Control measurements	●	●	●	●	●	●	●	●	●	●
LIMS connection	–	–	●	●	●	●	○	○	○	●
Quality assurance	●	●	●	●	●	●	●	●	●	●
Training	●	●	○	○	○	○	●	●	○	○
Service	–	–	–	–	–	●	●	●	●	●
Laboratory measurements	●	●	●	●	●	●	○	○	○	●
Field measurements	–	–	–	–	–	●	●	●	●	●
Depth measurements	–	–	–	–	–	●	–	–	–	up to 330 ft (100 m)
External control/PC connection/PC control	–/–/–	–/–/–	●/●/●	●/●/●	●/●/●	●/●/–	●/●/–	●/●/–	●/●/–	–/●/–
BOD measurements with self-stirring sensor	–	–	●	●	–	●	–	–	–	–
BOD measurements with assessment program	–	–	–	–	–	–	–	–	–	–
pH/ION function	–	–	●	●	●	●	–	–	–	●
Ion-specific measurement programs	–	–	–	–	●	–	–	–	–	–
Salinity/TDS measurement	●/●	●/●	●/●	●/●	●/●	●/–	●/–	–/–	●/–	●/●
Specific resistance	●	●	●	●	●	–	–	–	–	●
Suitable for USP 28	●	●	●	●	●	–	–	–	–	●
Measurement of ultrapure water	●	●	●	●	●	–	–	–	–	●
Trace conductivity	●	●	●	●	●	–	–	–	–	●

see page

52 52 52 52 54 56 60 60 60 57

Application Range Sensors	TetraCon® 325	LR 325/01	LR 325/001	DurOx®	CellOx® 325	ConOx	MPP	TA 197 pH	TA 197 LF	TA 197 Oxi
USP 28	–	●	●	–	–	–	–	–	–	–
Pharmaceutical water	○	●	●	–	–	–	–	–	–	–
Chemical water	○	–	–	○	○	○	○	–	–	–
Ground water	●	●	–	○	–	○	●	–	–	–
Surface waters	●	–	–	●	–	●	●	–	–	–
Depth measurements (barrages)	up to 66 ft (20 m)	–	–	–	up to 66 ft (20 m)	up to 66 ft (20 m)	up to 330 ft (100 m)	up to 330 ft (100 m)	up to 330 ft (100 m)	up to 330 ft (100 m)
Laboratory measurements	●	●	●	○	●	●	–	–	–	–
BOD measurements	–	–	–	–	●	–	–	–	–	–
Fish farming	–	–	–	●	○	●	●	–	–	–
Swimming pools	●	–	–	●	●	●	○	–	–	–
Foods industry (juices)	●	–	–	–	○	○	–	–	–	–
Pharmaceutics	●	●	○	○	●	●	–	–	–	–
Cosmetics/Detergents	○	–	–	–	–	–	–	–	–	–
Semi-conductor industry	–	●	●	–	○	○	–	–	–	–
Prozesstechnik	○	–	–	○	○	–	–	–	–	–
Biotechnology (non-autoclavable)	–	–	–	●	●	●	–	–	–	–
Wastewater treatment plant: aeration basin	–	–	–	●	○	○	●	–	–	–
Wastewater treatment plant: inflow	●	–	–	●	○	○	●	–	–	–

applicable instruments:

all with Cond Meas. 350i inoLab® pH/Cond 7xx inoLab® Multi 7xx 350i 350i all with D.O. Meas. 350i 350i Multi 197i Multi 197i Multi 197i

Multi-Meters

Laboratory Multi-Parameter Instruments

With the growing number of measurements required by today's modern laboratory, instruments need to be able to perform multiple functions. The inoLab® multi-parameter instruments provide the most necessary features and functions at an outstanding price.

inoLab® 720

inoLab® pH/Cond 720 and inoLab® Multi 720

The routine instrument **inoLab® pH/Cond 720** is a favorably-priced model for initial processing of pH / conductivity measurements. The **inoLab® Multi 720** allows the measurement of pH and ORP, oxygen, conductivity and salinity as well as the temperature. Their large multifunction display means that they are suitable for standard measurements where GLP-documentation is not required.

additional features:

- Easy-to-clean touch-sensitive keypad
- Simplified operator convenience
- Bench and wall-mounted models
- Mains-independent
- Country-specific units
- Application-oriented displays

inoLab® 740

inoLab® pH/Cond 740 and inoLab® Multi 740

As high-end instruments the **inoLab® pH/Cond 740** and the **inoLab® Multi 740** have a resolution of 0.001 pH units. They also have all the functions necessary for making ion selective measurements. With the inoLab® Multi 740 oxygen is measured as %, mg/l or mbar. The pH/Cond 740 and the inoLab® Multi 740 can be used to measure the salinity and TDS (Total Dissolved Solids) as well as conductivity and specific resistance.

The optional built-in printer as well as the graphic display with operator guidance increase the measuring comfort and allow QA-conform documentation.

additional features:

- 5-point calibration by linear regression
- Freely selectable buffer sets
- Graphic evaluation possible
- Built-in digital plotter
- Connection for bar-code reader or PC keyboard
- User Selectable Languages
- Limit input with acoustic alarm
- Multi-Level GLP Functions (password-protected operator levels)
- Free-of-charge downloads for MultiLab® pilot or terminal



- Compact
- Versatile
- Easy-to-use

IP 43



cETLus

3 Year Warranty



- Multifunctional
- Precise
- Communicative

IP 43



cETLus

3 Year Warranty

Laboratory Multi-Parameter Instruments

Technical Data inoLab®

	pH/Cond 720, Multi 720	Multi 720	pH/Cond 720, Multi 720
	pH measurement	Oxygen measurement	Conductivity measurement
Range/ Resolution	pH: -2.00 ... +16.00 pH mV: -199.9 ... +199.9 mV -1999 ... +1999 mV Temp.: 23 ... 221 °F (-5.0 ... +105.0 °C)	O ₂ concentration: 0.00 ... 19.99 mg/l 0.0 ... 90 mg/l* O ₂ saturation: 0.0 ... 199.9% 0 ... 600%* O ₂ partial press.: 0.0 ... 199.9 mbar 0 ... 1250 mbar Temp.: 32 ... 122 °F (0.0 ... 50.0 °C) <i>*depends on oxygen sensor and medium</i>	0.0 µS/cm ... 500 mS/cm in 5 ranges or AutoRange, in addition at: K = 0.01 cm ⁻¹ 0.000 ... 1.999 µS/cm K = 0.1 cm ⁻¹ 0.00 ... 19.99 µS/cm Temperature: 23 ... 221 °F (-5.0 ... +105.0 °C) Salinity: 0.0 ... 70.0 TDS: 0 ... 1999 mg/l Spec. resistivity: 0.000 ... 1999 MΩcm
Accuracy (±1 digit)	pH: ±0.01 pH mV: ±0.3 mV, ±1 mV	±0.5 % of value	±0.5 % of value
Temperature compensation	Automatic 23 ... 221 °F (-5 ... +105.0 °C) with TFK 325 or built-in temperature sensor manual -4 ... 266 °F (-20 °C ... +130 °C)	Automatic via IMT compensation from 32 ... 104 °F (0 ... 40 °C)	Linear and non-linear function for ultrapure water and natural water to EN 27 888, can be switched off
Calibration	MultiCal® 2-point ConCal® 1-/2-point	With OxiCal®-SL	Calibration with 0.01 mol KCl

	pH/Cond 740, Multi 740	Multi 740	pH/Cond 740, Multi 740
	pH measurement	Oxygen measurement	Conductivity measurement
Range/ Resolution	pH: -2.000 ... +20.000 pH -2.00 ... +20.00 pH mV: -999.9 ... +999.9 mV -2000 ... +2000 mV ISE: Concentration: 0.01 ... 2000 mg/l Temp.: 23 ... 221 °F (-5.0 ... +105.0 °C)	O ₂ concentration: 0.00 ... 20.00 mg/l 0.0 ... 90 mg/l* O ₂ saturation: 0.0 ... 200.0% 0 ... 600%* O ₂ partial press.: 0.0 ... 200.0 mbar 0 ... 1250 mbar Temp.: 32 ... 122 °F (0.0 ... 50.0 °C) <i>*depends on oxygen sensor and medium</i>	0.0 µS/cm... 2000 mS/cm in 5 ranges or AutoRange, in addition at: K = 0.01 cm ⁻¹ 0.000 ... 2.000 µS/cm K = 0.1 cm ⁻¹ 0.00 ... 20.00 µS/cm Temperature: 23 ... 221 °F (-5.0 ... +105.0 °C) Salinity: 0.0 ... 70.0 TDS: 0 ... 2000 mg/l Spec. resistivity: 0.000 ... 2000 MΩcm
Accuracy (±1 digit)	pH: ±0.004 pH ±0.01 pH mV: ±0.2 mV, ±1 mV	±0.5 % of value	±0.5 % of value
Temperature compensation	Automatic 23 ... 221 °F (-5 ... +105.0 °C) with TFK 325 or built-in temperature sensor manual -4 ... 266 °F (-20 °C ... +130 °C)	Automatic via IMT compensation from 32 ... 104 °F (0 ... 40 °C)	Linear and non-linear functions for ultrapure water and natural waters to EN 27 888, can be switched off
Calibration	MultiCal® 2-, 3- and 5-point ISECal 2- and 3-point ConCal® 1-/2-point	With OxiCal®-SL	Calibration with 0.01 mol/l KCl

Ordering Information

□ with BNC plug ▲ with DIN plug

inoLab® Multi-Parameter SETs – with wide-range power supply 100-240 VAC (50/60 Hz) included	□ Order No.	▲ Order No.
inoLab® Multi 720 Simple and reliable multi-parameter meter for routine work, including Sentix® 41/42, CellOx® 325, TetraCon® 325 and accessories	1F10-211711	1F10-111211
inoLab® Multi 740 Flexible and powerful – the intelligent pH, oxygen and conductivity measuring station consisting of multifunction box and universal terminal, with PC software/connection cable, Sentix® 81/82, CellOx® 325, TetraCon® 325 and accessories	1F30-211911	1F30-111411
Passive multifunction box (not included in Multi 720 Set)		109 810
Other multi-parameter SETs see brochure "Product Details"		

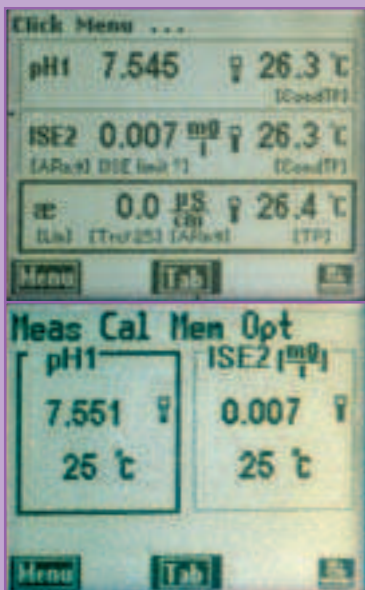
Multi

Multi-Meters

Laboratory Multi-Parameter Instruments

inoLab® pH/ION/Cond 750

- 2 galvanically isolated pH inputs
- Multiple conductivity functions
- Menu-driven with backlit graphics display



Display with menus

The Ultimate Measurement Technology by WTW:

This ultimate multiparameter meter with its two galvanically separated pH inputs allows independent and simultaneous measurements of pH, ORP or ion concentrations. Calibrations with up to 7 standard solutions can be carried out to achieve precise measurements across the entire characteristic curve of an ISE electrode. The wide range of calibration procedures allows for even the non-linear portion of the calibration curve to be accurately defined. In addition to direct potentiometric methods the following advanced methods are also included:

- Known addition/subtraction
- Addition/subtraction of samples
- Double known addition
- Blank correction
- Known addition with blank correction
- Reference measurement

Laboratory Multi-Parameter Instruments

In addition to pH and Ion capability, and with features such as the ability to measure salinity, TDS, specific conductance, resistance and temperature coefficients, this versatile meter can perform all required conductivity measurements. Temperature coefficients are pre-programmed for NaOH, HCl, KCl, and NaCl. More over that individual (non-) linear coefficients can be fed into the instrument. Additional features include the measurement of sample concentrations by conductivity; two dimensional temperature concentration field to determine accurate reference conductivities. Comprehensive additional functions such as measurement data management, PC-connection via MultiLab® pilot, GLP-conform calibration and measurement data acquisition and a bidirectional RS 232 interface permit seamless integration into modern laboratory routines.



IP 43



cETLus

3 Year Warranty

Technical Data inoLab®

	pH/ION/Cond 750	pH/ION/Cond 750
	pH/ION measurement	Conductivity measurement
Range/Resolution	pH: -2 ... 20.000 pH -2.00 ... 20.00 pH mV: -999.9 ... +999.9 mV -2000 ... +2000 mV Conc.: 0.01 mg/l ... 200 g/l Temp.: 23 ... 221 °F (-5.0 ... +105.0 °C)	0.0 µS/cm ... 2000 mS/cm in 5 ranges in AutoRange mode additional: 0.00 µS/cm ... 20.00 µS/cm (K=0.1 cm ⁻¹) 0.000 µS/cm ... 2.000 µS/cm (K=0.01 cm ⁻¹) Temp.: 23 ... 221 °F (-5.0 °C ... +105.0 °C) Salinity: 0.0 ... 70.0 TDS: 0 ... 2000 mg/l Spec. resistivity: 0.00 ... 2000 MOhm
Accuracy (±1 digit)	pH: ± 0.004 pH, ± 0.01 pH mV: ± 0.2 mV, ± 1 mV	Conductivity: ± 0.5 % of value
Temperature compensation	Automatic 23 ... 221 °F (-5 ... +105.0 °C) Manual -4 ... 266 °F (-20 ... +130 °C) NTC30 KOhm: ±0.1 K Pt 1000: ±0.1 K	23 ... 212 °F (-5.0 ... 100 °C) • Linear and non-linear functions for ultrapure water and natural waters to EN 27 888 • Lineare compensation from 0.01 % ... 3.00 %/K • Compensation can be switched off Special functions: non-linear temperature coefficients, pre-programmed coefficients, concentration determination, non-linear reference conductivity
Reference temp.	—	68 °F/77 °F (20 °C/25 °C) selectable
Cell constants	—	Fixed 0.01 cm ⁻¹ , Freely selectable 0.090 ... 0.110 cm ⁻¹ , 0.250 ... 25.000 cm ⁻¹ Calibrable 0.450 ... 0.500 cm ⁻¹

Ordering Information

 with BNC plug with DIN plug

inoLab® Multi-Parameter SETs – with wide-range power supply 100-240 VAC (50/60 Hz) included	<input type="checkbox"/> Order No.	<input checked="" type="checkbox"/> Order No.
inoLab® pH/ION/Cond 750 Flexible and powerful – the intelligent pH, ION and conductivity measuring station consisting of multifunction box, with PC software/connection cable, Sentix® 81/82, TetraCon® 325 and accessories	1K30-211901	1K30-111401
Passive multifunction box (not included in Multi 720 Set)		109 810
Other multi-parameter SETs see brochure "Product Details"		

For information visit www.WTW.com for a customer care center near you or inside US: call WTW 800 645 5999.

Multi-Meters

Portable Multi-Parameter Instruments



ProfiLine Multi 197i

The new WTW ProfiLine Multi 197i is both hose-proof (IP 66) and submersible (IP 67). With its recorder output, real-time clock and 500 data file datalogger standard, these rugged meters conform to all GLP requirements. It allows the simultaneous connection of pH, conductivity and oxygen sensors. The parameter to be measured is set in the display via the "M" function key and can then be measured or stored.

They are equipped with a carrying/support handle and carrying strap as standard.

The Multi 197i has a built-in preamplifier and is therefore suitable in combination with the WTW depth armatures for single-parameter operation at depths down to 330 ft (100 m).

Up to three depth armatures can be simultaneously connected using the adapter ADA/TA 197 pH.

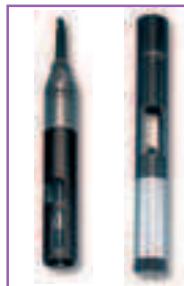
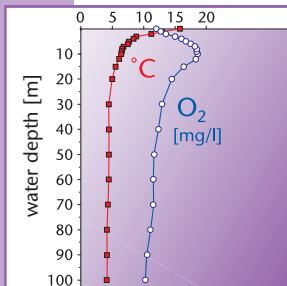
New: Powerful NiMH rechargeable batteries.

- Robust, shockproof
- Waterproof, submersible
- The multi-talent for depth measurements



Measurement of Oxygen, pH and Conductivity at Depth Profiles:

Depth armatures with integrated temperature measurement sensors, up to 330 ft (100 m) of cable with a waterproof plug (IP 67), VA 1.4571 steel armoring and screw-on protective hood, pressure resistant to max. 10 bar, suitable for small boreholes (2" diameter).



*f.l.t.r.: oxygen depth armature TA 197 Oxi and battery-powered stirrer BR 325, pH depth armature TA 197 pH, 4-electrode depth measuring cell TA 197 LF
Please refer to price list for ordering information.*

Technical Data

	pH measurement	Oxygen measurement	Conductivity measurement
Range/ Resolution	pH: -2.00 ... +19.99 mV: -1999 ... +1999	O ₂ concentration: 0.00 ... 19.99 mg/l 0.0 ... 90.0 mg/l* O ₂ saturation: 0.00 ... 19.99 % 0.0 ... 600 %* <i>*depends on oxygen sensor and medium</i>	1 μS/cm ... 500 mS/cm in 4 ranges Salinity: 0.0 ... 70.0
Accuracy (±1 digit)	pH: ± 0.01 pH, mV: ± 1 mV	±0.5% of value	±1% of value
Temperature compensation	Automatic 23 ... 221 °F (-5 ... +105.0 °C) Manual -4 ... 266 °F (-20 ... +130 °C)	Automatic via IMT Compensation from 32 ... 104 °F (0 ... 40 °C)	Non-linear function for ultrapure and natural waters to EN 27 888
Reference temp.	—	—	68/77 °F (20/25 °C) selectable
Calibration	1-2 point calibration with technical buffers	Automatic calibration	Automatic calibration

Ordering Information

Portable Multi-Parameter Instrument		Order No.
ProfiLine Multi 197i	Robust, waterproof, submersible multi-parameter instrument	3F30-110
Sensors and accessories see brochure "Product Details"		

For information visit www.WTW.com for a customer care center near you or inside US: call WTW 800 645 5999.

Multi-Meters

Handheld Multi-Parameter Instruments

Multi 350i



- Multi-functional, High degree of Accuracy
- Flexible
- All parameters simultaneously displayed



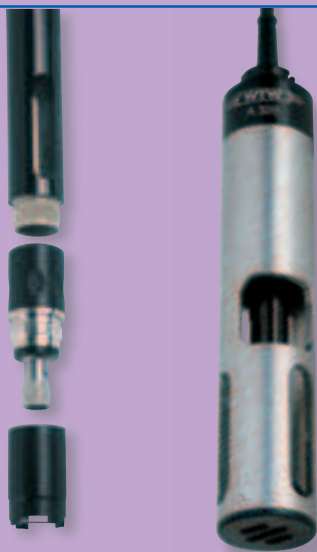
Multi 350i – compact Precision without Compromises

pH, mV, ISE, Oxygen, Conductivity: The new Multi 350i can measure all of these parameters. If desired, pH, oxygen, conductivity and temperature can be measured simultaneously: In the Laboratory using the **combined conductivity/oxygen sensor ConOx**, in the field with the multiparameter probe **MPP 350**. All current WTW pH, combination ISE's, oxygen and conductivity sensors can be additionally connected.

High resolution, high precision, simple, menu-driven operation. Even in poor lighting conditions the backlit graphics display provides clearly readable values. A data-logger, memory for 1,800 data sets and a real-time clock support GLP requirements.

Includes built-in NiMH rechargeable battery for up to 1,000 hours of continuous measurements and appropriate line adaptor.








ConOx

ConOx: Conductivity and Oxygen Measurement with fully automatic Salinity Correction.

A slender and handy sensor for three parameters: conductivity, dissolved oxygen and temperature. The oxygen module can be easily removed and works according to the time-proven galvanic principle. Immediately ready for use, little maintenance required, for all water analysis applications in laboratories and in the field. Including OxiCal® CX calibration vessel.

-  Slender
-  Handy
-  Conductivity, dissolved oxygen and temperature at the same time

The conductivity sensor features the time-proven 4-electrode system. If desired it can also be used without the oxygen module. Precise, easy to clean, capable of accurate measurements even when used in normally electrode fouling samples. Available with cable lengths 4.9 ft, 9.8 ft, 19.7 ft, 32.8 ft, 49.2 ft, 65.6 ft (1.5 m, 3 m, 6 m, 10 m, 15 m, 20 m).

Technical Data

Electrode material	Graphite
Shaft material	Epoxy/POM
Shaft length	145 mm
Cell constant	K=0.475 cm ⁻¹
Diameter	0.60 in. (15.3 mm)
Range	1 µS/cm ... 2 S/cm
Temperature range	32...122 °F(0...50 °C)
Oxygen sensor	Galvanic sensor

Working time: 6 months
with 1 electrolyte filling, zero current free






Multi-Parameter Probe MPP 350

An all-new Multi-Parameter Probe as the perfect Probe for use with Multi 350i:

With a diameter of only 1.6 in (41.5 mm) and a length of 11.42 in (29 cm), this probe is usable in a wide range of applications. Wherever simultaneous measurement of pH, dissolved oxygen and conductivity is required, this probe is the ideal supplement to the Multi 350i.

Suitable for measurements in lakes, rivers, seawater and brackish water, in boreholes down to a maximum depth of 330 ft. (100 m), as well in groundwater and spring water. The special pH sensor SensoLyt® MPP-A (please order separately) for measurements in water provides reproducible measurement values, even at low conductivity levels.

For cable lengths greater than 20 ft. (6 m) a battery operated stirrer is included. The conductivity measuring cell with proven 4-pole-measurement technology has a measuring range of 1 µS/cm to 2 S/cm. The MPP 350 is available with 8 different cable lengths up to 330 ft (100 m). Accessories include specialized calibration vessels. Two field sets are available including case, Multi 350i meter, accessories and MPP either with 20 ft. (6 m) or 81 ft. (25 m) cable length.

-  pH, conductivity, dissolved oxygen and temperature at the same time
-  For all areas of application in surface waters and 2 inch boreholes
-  Depth measurement up to 330 ft (100 m)

Techn. Data

Range	pH: 4 ... 12 O ₂ : 0 ... 600% LF: 1 µS/cm ... 2 S/cm Temp.: 32...122 °F (0...50 °C)
Dimensions, Weight	Diameter 41,5 mm, Length approx. 290 to 410 mm (depends on special accessories), approx. 700 g
Materials	POM, Stainless steel 1.4571 (additional weight), PVC (Cable)

Handheld Multi-Parameter Instruments

Technical Data

	pH measurement	Oxygen measurement	Conductivity measurement
Range/ Resolution	pH: -2 ... 20.000 -2.00 ... 20.00 mV: -999.9 ... +999.9 -2000 ... +2000 Conc.: 0.01 ... 2000 mg/l Temp.: 23 ... 221 °F (0.0 ... 105.0 °C)	O ₂ conc.: 0.00 ... 20.00 mg/l (19.9 mg/l*) 0.0 ... 90.0 mg/l (90 mg/l*) O ₂ saturation: 0.00 ... 200.0% (200%*) 0.0 ... 600 % O ₂ part. press.: 0.0 ... 200.0 mbar (200 mbar*) 0.0 ... 1250 mbar Temp.: 32 ... 122 °F (0.0 ... 50.0 °C) *if DurOx® oxygen sensor is used	0.0 µS/cm ... 2000 mS/cm in 5 ranges in AutoRange mode additional: 0.00 µS/cm ... 20.00 µS/cm (K=0.1 cm ⁻¹) 0.000 µS/cm ... 2.000 µS/cm (K=0.01 cm ⁻¹) Temp.: 23 ... 221 °F (-5.0 ... +105.0 °C) Salinity: 0.0 ... 70.0 TDS: 0 ... 2000 mg/l Spec. resistivity: 0.00 ... 2000 MOhm
Accuracy (±1 digit)	pH: ± 0.004 pH, ± 0.01 pH mV: ± 0.2 mV, ± 1 mV	O ₂ conc.: ±0.5 % of value O ₂ saturation: ± 0.5 % of value O ₂ part. press.: ±0.5 % of value	Cond: ±0.5 % of value
Temperature compensation	Automatic 23 ... 221 °F (-5 ... +105.0 °C) Manual -4 ... 266 °F (-20 ... +130 °C) NTC 30 kOhm: ± 0.1 K Pt 1000: ± 0.1 K	32 ... 122 °F (0 °C ... 50 °C) (on ambient temperature 41 ... 86 °F / 5 ... 30 °C) <2% at 32 ... 104 °F (0 ... +40 °C) Temperature: ±0.1 K	23 ... 212 °F (-5.0 ... 100 °C) • Linear and non-linear function for ultrapure and natural waters to EN 27 888 • Linear comp. from 0.01 % ... 3.00 %/K • Compensation can be switched off NTC 30 kOhm: ± 0.1 K Pt 1000: ± 0.1 K
Air pressure compensation	—	Automatic with built-in pressure sensor (500 ... 1100 hPa)	—
Salinity correction	—	Automatic or manual	—
Ref. temperature	—	—	68 °F/77 °F (20 °C/25 °C) selectable
Call constants	—	—	Fixed 0.01 cm ⁻¹ , Freely selectable 0.090 ... 0.110 cm ⁻¹ , 0.250 ... 25.000 cm ⁻¹ Calibrable 0.450 ... 0.500 cm ⁻¹ , 0.800 ... 1.200 cm ⁻¹

Ordering Information

Handheld Multi-Parameter SET		Order No.
Multi 350i SET	Robust and waterproof pocket multi-parameter instrument with data logger and serial interface, including SenTix® 41-3 and ConOx-3, NiMH batteries and battery charger, PC communication package, professional case and accessories	2F40-114B0E
ConOx-3	Combined conductivity-oxygen-probe with 9.8 ft (3 m) cable and accessories	401 010
MPP 350-3	pH/oxygen/conductivity sensor without pH electrode, with 9.8 ft (3 m) cable and accessories	401 100
Sensolyt® MPP-A	armored pH electrode for MPP 350	401 152
Sensolyt® MPP-A Pt	armored ORP electrode for MPP 350	401 152
A 325/S	Stainless steel armoring for ConOx and Cellox®	903 831
SK-325	Protective hood suitable for A 325/S	201 580



Contact Us:

Irl Ph: 01 4523432

UK Ph: 08452 30 40 30

Web: www.carlstuart.com

Email: info@carlstuart.com

Multi 340i

The rugged, versatile Multimeter

The hose-proof (IP 66) instrument with battery or optional line adaptor also meets the requirements of IP 67 and is optimally suited for use in the field, in laboratories or at production sites.

Simultaneous connection of a pH/ORP electrode and an oxygen sensor or conductivity cell allows up to three parameters (including temperature) to be measured at the same time.

Multi 340i SET 1

- Multi-parameter instrument **Multi 340i**
- Professional case with built-in measuring set-up, two STH 320 stands, two beakers, SM 325 protective armoring and carrying strap with two cases
- Line adaptor power supply, calibration and maintenance supplies, operating instructions

additional features include:

- Handy
- Up to 2500 hours continuous operation
- Easy to use
- Complete in set



Waterproof

Robust

GLP conform

pH/Oxi 340i, pH/Cond 340i

Multi-Parameter Instruments pH/Oxi 340i and pH/Cond 340i

WTW handheld multi-parameter instruments stand for precise multi-parameter measuring technology. The **pH/Oxi 340i** for the determination of pH, oxygen and temperature and the **pH/Cond 340i** for the determination of pH, conductivity and temperature are favorably-priced alternatives to the single parameter instruments for applications which require the measurement of several parameters. The instruments are hose-proof and also meet the requirements of IP 67. They are extremely robust and optimally suited for use in the field, in laboratories or at production sites.

additional features include:

- Handy
- Up to 2500 hours continuous operation
- Easy to use
- Complete in set

pH/Oxi 340i SET

Kit includes:

Professional case with sample beakers included, pH/Oxi 340i, pH electrode and oxygen sensor as chosen, STH 320 stand and calibration and maintenance supplies

pH/Cond 340i SET

Kit includes:

Professional case with sample beakers included, pH/Cond 340i, pH electrode and conductivity cell as chosen, STH 320 stand and calibration and maintenance supplies

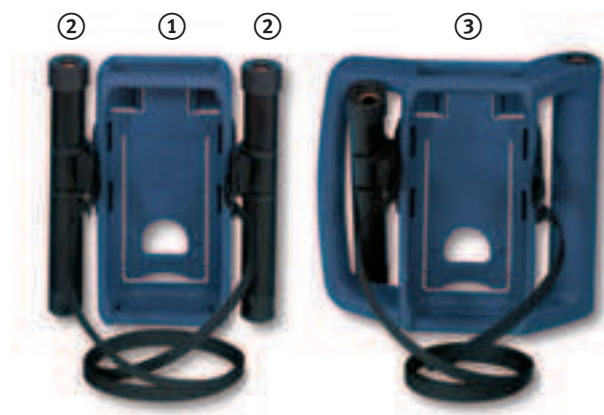


Handheld Multi-Parameter Instruments

Technical Data

	pH/Oxi 340i, pH/Cond 340i, Multi 340i	pH/Oxi 340i, Multi 340i	pH/Cond 340i, Multi 340i
	pH measurement	Oxygen measurement	Conductivity measurement
Range/Resolution	pH: -2.00 ... +19.99 pH mV: -1999 ... +1999	O ₂ concentration: 0.00 ... 19.99 mg/l 0.0 ... 90.0 mg/l* O ₂ saturation: 0.00 ... 19.99 % 0.0 ... 600 %* <i>*depends on oxygen sensor and medium</i>	1 μS/cm ... 500 mS/cm in 4 ranges Salinity: 0.0 ... 70.0
Accuracy (±1 digit)	pH: ± 0.01 pH, mV: ± 1 mV	±0.5 % of value	±1 % of value
Temperature compensation	Automatic 23 ... 221 °F (-5 ... +105.0 °C) Manual -4 ... 266 °F (-20 ... +130 °C)	Automatisch via IMT compensation from 32 ... 104 °F (0 ... 40 °C)	Non-linear function for ultrapure and natural waters to EN 27 888
Ref.temperature	—	—	68/77 °F (20/25 °C) selectable
Calibration	1-2 point calibration with technical buffers	Automatic calibration	Automatic calibration

Protective armoring



for safe on-site use

- ① **SM 325** Shock-absorbing, rubber protective armoring with support handle and sensor cable management
- ② **TG/ML** Sleeve set, suitable for SM 325 protective armoring, consisting of 2 sensor sleeves, holding device and additional carrying strap for field use. Can also be used for storing the sensor
- ③ **FM/ML** Field armoring, specially designed for rough use on-site and in industry, extremely robust and shock-resistant thanks to protective armoring with 2 sensor sleeves, carrying handle and additional carrying strap with holding device, sensor cable management and folding support for laboratory measurements

Ordering Information

Handheld Multi-Parameter Instrument SETs		Order No.
pH/Oxi 340i	Robust and waterproof handheld multi-parameter instrument with datalogger and serial interface for battery operation, including Sentix® 41-3, CellOx® 325-3, professional case and accessories	2D30-101B20
pH/Cond 340i	Robust and waterproof handheld multi-parameter instrument with datalogger and serial interface for battery operation, including Sentix® 41-3, TetraCon® 325-3, professional case and accessories	2E30-101B02
Multi 340i	Robust and waterproof handheld multi-parameter instrument with datalogger and serial interface for battery operation, including Sentix® 41-3, CellOx® 325-3, TetraCon® 325-3, professional case and accessories	2F30-104B22
Universal wide-range power supply 100 V - 240 V, 50-60 Hz; for 340i series		902 867
Other electrode/sensors in SET see brochure "Product Details"		