



## ConOx

**NEW**

**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 <sup>-1</sup>
Diameter	15.3 cm
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

**NEW**

**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 <sub>2</sub> : 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
<b>Range/Resolution</b>	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 <sub>2</sub> conc.: 0.00 ... 20.00 mg/l (19.9 mg/l*) 0.0 ... 90.0 mg/l (90 mg/l*) O <sub>2</sub> saturation: 0.00 ... 200.0% (200%*) 0.0 ... 600 % O <sub>2</sub> part. press.: 0.0 ... 200.0 mbar (200 mbar*) 0.0 ... 1250 mbar Temp.: 32 ... 122 °F (0.0 ... 50.0 °C) <i>*if DurOx® oxygen sensor is used</i>	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 <sup>-1</sup> ) 0.000 µS/cm ... 2.000 µS/cm (K=0.01 cm <sup>-1</sup> ) 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
<b>Accuracy (±1 digit)</b>	pH: ± 0.004 pH, ± 0.01 pH mV: ± 0.2 mV, ± 1 mV	O <sub>2</sub> conc.: ±0.5 % of value O <sub>2</sub> saturation: ± 0.5 % of value O <sub>2</sub> part. press.: ±0.5 % of value	Cond: ±0.5 % of value
<b>Temperature compensation</b>	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
<b>Air pressure compensation</b>	—	Automatic with built-in pressure sensor (500 ... 1100 hPa)	—
<b>Salinity correction</b>	—	Automatic or manual	—
<b>Ref. temperature</b>	—	—	68 °F/77 °F (20 °C/25 °C) selectable
<b>Call constants</b>	—	—	Fixed 0.01 cm <sup>-1</sup> , Freely selectable 0.090 ... 0.110 cm <sup>-1</sup> , 0.250 ... 25.000 cm <sup>-1</sup> Calibrable 0.450 ... 0.500 cm <sup>-1</sup> , 0.800 ... 1.200 cm <sup>-1</sup>

## Ordering Information

Handheld Multi-Parameter SET		Order No.
<b>Multi 350i SET</b>	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
<b>ConOx-3</b>	Combined conductivity-oxygen-probe with 9.8 ft (3 m) cable and accessories	401 020
<b>MPP 350-3</b>	pH/oxygen/conductivity sensor without pH electrode, with 9.8 ft (3 m) cable and accessories	401 120
<b>SensoLyt® MPP-A</b>	armored pH electrode for MPP 350	401 152
<b>SensoLyt® MPP-A Pt</b>	armored ORP electrode for MPP 350	401 152
<b>A 325/S</b>	Stainless steel armoring for ConOx and CellOx®	903 831
<b>SK-325</b>	Protective hood suitable for A 325/S	201 580



- Waterproof
- Robust
- GLP conform

## 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

IP 66  
IP 67

CE

UL  
CUL

3 Year  
Warranty

## 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

IP 66  
IP 67

CE

UL  
CUL

3 Year  
Warranty



# 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 <sub>2</sub> concentration: 0.00 ... 19.99 mg/l 0.0 ... 90.0 mg/l* O <sub>2</sub> 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"		

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