Conventional multi-parameter portable instruments

Multi 350i/3500i*

- Multi-functional, high degree of accuracy
- Flexible
- All parameters simultaneously displayed

Multi 350i/3500i* – Compact precision without compromises

pH, mV, ISE, dissolved oxygen, conductivity: The new Multi 350i/3500i* can measure all of these parameters. If desired, pH, DO, conductivity and temperature can be measured simultaneously: In the laboratory using the **combined conductivity/DO probe ConOx**, or in the field with the multi-parameter probe **MPP 350**. All current WTW pH, combination ISEs, DO and conductivity probes can be connected.

High resolution, high precision, simple, menu-driven operation. Even in poor lighting conditions the backlit graphics display provides clearly readable values. With 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 AC adaptor.







* North American version

ConOx

- Slender
- Convenient
- Measures conductivity, dissolved oxygen and temperature simultaneously



Conductivity and dissolved oxygen measurement with fully automatic salinity correction.

The ConOx sensor is a combination probe that allows for the simultaneous measurement of conductivity, dissolved oxygen, and temperature, and features automatic salinity correction as well. The conductivity portion of the sensor incorporates a proven 4-electrode system which helps to prevent inaccurate readings sometimes caused by difficult or dirty samples. The DO portion of the probe is a galvanic sensor that allows for immediate use after cleaning - eliminating the required "warm-up" time associated with other probes. The ConOx requires little maintenance and is suitable for all water analysis applications, whether in the laboratory or field environments.

MPP 350

- 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 100 m (330 ft)



An all-new Multi-parameter probe, perfect probe for use with the Multi 350i/3500i*:

The MPP 350 is designed for use with the Multi 350i/3500i* with a diameter of 41.5 mm (1.6 in.) and a length of 290 mm (11.42 in.), providing versatility for a wide range of applications. The MPP 350 allows for the simultaneous measurement of pH, dissolved oxygen and conductivity suitable for use in lakes, rivers, saltwater, brackish water, ground water or spring water, or for measurements in boreholes down to a maximum depth of 100 m (330 ft.). The special pH sensor SensoLyt® MPP-A (sold separately) provides reproducible measurement values even at low conductivity levels. The conductivity cell, with proven 4-electrode measurement technology, has a range of 1 μ S/cm to 2 S/cm. The MPP 350 is available with 8 different cable lengths up to 100 m (330 ft).

* North American version

Technical Data Multi 350i/3500i*			
	pH measurement	Dissolved oxygen measurement	Conductivity measurement
Range/ Resolution Accuracy (±1 digit)	pH: -220.000 -2.0020.00 mV: -999.9 +999.9 -2000 +2000 Conc.: 0.01 2000 mg/l Temp.: -5.0 °C 105.0 °C (23.0221.0 °F) pH: ± 0.004 pH. ± 0.01 pH mV: ± 0.2 mV. ± 1 mV	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%**) O ₂ part. pressure: 0.0 200.0 mbar (200 mbar**) 0.0 1250 mbar Temp.: 0.0 °C 50.0 °C (32.0 122.0 °F) O ₂ Conc.: ±0.5% of value O ₂ saturation: ±0.5% of value	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.: -5.0 °C +105.0 °C Salinity: 0.0 70.0 TDS: 0 2000 mg/l Spec. resistivity: 0.00 2000 MOhm LF: ±0.5% of value
Temperature compensation	Automatic -5 +105.0 °C (23221 °F) Manual -20 +130 °C (-4 266 °F) NTC 30 kOhm: ± 0.1 K Pt 1000: ± 0.1 K	O ₂ part. pressure: ±0.5% of value 0 °C 50 °C (32 122 °F) (on ambient temperature 530 °C/41 86 °F) <2% at 0 +40 °C (32 104 °F) Temperature: ±0.1 K	-5.0 100 °C (23 212 °F) • 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	_
Salinity correction		(500 1100 mbar) Automatic or manual	
Reference temperature	 	— Automatic of manual	20 °C/25 °C (68 °F/77 °F) selectable
Cell constants	_	_	Fixed 0.01 cm ⁻¹ , Freely selectable 0.0900.110 cm ⁻¹ , 0.250 25.000 cm ⁻¹ With calibration 0.450 0.500 cm ⁻¹ , 0.800 1.200 cm ⁻¹
Technical Data ConOx			
Electrode material	Graphite		
Shaft material	Epoxy/POM		
Shaft length	145 mm (5.7 in.)		
Cell constant	K=0.475 cm ⁻¹		
Diameter	15.3 mm (0.60 in.)		
Range	1 μS/cm 2 S/cm		
Temperature range	050 °C (32 122 °F)		
Dissolved oxygen sensor	Galvanic sensor		
Working time	6 months with 1 electrolyte filling, zero current free		
Technical Data MPP 350			
Range Dimensions	pH: 4 12 O ₂ : 0 600% Cond.: 1 μS/cm 2 S/cm Temp.: 050 °C (32 122 °F) Diameter 41.5 mm (1.6 in.)		
Weight/Length	Approx. 290 mm (11.42 in.) to 410 mm (16.14 in.) (depends on special accessories) approx. 700 q (1.54 lb.)		
Materials	POM, Stainless steel 1.4571 (additional weight), PVC (Cable)		
Ordering Information			
Portable Multi-parameter SET Order No.			
Multi 350i/3500i* SET 5	Robust and waterproof portable 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		
ConOx-3	Combined conductivity-DO-probe with 3 m (9.8 ft) cable and accessories 401 010		
MPP 350-3	pH/DO/conductivity probe without pH electrode, with 3 m (9.8 ft) 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 350 401 153		
A 325/S	Stainless steel armor for ConOx and CellOx® 903 831		
SK 325	Protective hood suitable for A 325/S 201 580		
Multi 350i/3500i*: P 66 F 67 CETLus 3 Year ** also valid for DurOx® ** also valid for Dur			