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Многофункциональные приборы Global Water

Технические характеристики



Multi 1970i Portable Multiparameter Meter

Portable multiparameter meters that combines handheld convenience
with benchtop features



Features

- Robust, water proof and field ready
- Up to three deep water probes can be used at once
- Long life and powerful NiMH rechargeable batteries

Applications



Ideal for ground water, surface water, fish farming, wastewater.

Specifications

Range	pH: -2 to 19.99 mV: -1999 to 1999 O ₂ conc.: 0.00 to 19.99 mg/l, 0.0 to 90.0 mg/l O ₂ saturation: 0.00 to 19.99 %, 0.0 to 600 % Conductivity: 0.0 µS/cm to 500 mS/cm in 4 ranges Salinity: 0.0 to 70.0
Accuracy (±1 digit)	pH: ±0.01 pH mV: ±1.0 mV O ₂ conc.: ±0.5% of value Conductivity: ±1.0% of value
Temp Comp	pH: Automatic: 23 to 221 °F(-5 to 105.0 °C) Manual: -4 to 266 °F(-20 to 130 °C) Oxygen: Automatic: via IMT compensation 32 to 104 °F(0 to 40 °C) Conductivity: Non-linear func- tion for ultra-pure and natural waters to EN 27 888
Air Pressure Comp	Automatic with built-in pressure sensor for dissolved oxygen measurements
Salinity Correction	Automatic or manual for dissolved oxygen measurements
Ref. Temperature	68 °F/77 °F (20 °C/25 °C) selectable for conductivity measurements

Description

The robust and user friendly WTW Pro-fiLine Multi 1970i Portable Multiparameter Meters are both hose down-proof (IP 66) and submersible (IP 67). With its recorder output, real-time clock and 500 data file data logger standard, the rugged meters conform to all GLP requirements. Designed for multitasking to make your job quicker and easier, the Multi 1970i allows the simultaneous connection of pH, conductivity and oxygen sensors. An intuitive user interface makes it easy for the meter to measure a parameter and store in memory. Field ready, the Multi 1970i features powerful NiMH rechargeable batteries (up to 600 hours of operation per charge) and is equipped with a carrying/support handle and carrying strap as standard.

Deep Water Measurement of Oxygen, pH and Conductivity

The Multi 1970i Portable Multiparameter Meters have a convenient built-in preamplifier to work with the WTW deep water sensors for single-parameter operation at depths down to 330 ft (100 m). Up to three deep water sensors can be simultaneously connected to the meters using the adapter ADA/TA 197 pH. The WTW deep water sensor assemblies are pressure resistant up to 145 psi (10 bar), have an integrated temperature measurement, steel armoring, a screw-on protective hood and are available with up to 330 ft (100 m) of cable with a waterproof plug (IP 67). These compact sensors will even fit small monitoring wells down to 2 inch (50 mm). Choose one or all three: TA 197 Oxi oxygen probe, TA 197 pH pH probe or TA 197 LF 4-electrode conductivity probe.

“Rain is a blessing
when it falls gently
on parched fields,
turning the earth
green, causing the
birds to sing.”

– Donald Worster,
Meeting the Expectations of the Land

Ordering & Options

Order No.	Description
Multi 1970i	Portable Multiparameter Meter
TA 197 Oxi-25	Deep water oxygen sensor w/82ft (25m) cable
TA 197 pH-25	Deep water pH sensor w/82ft (25m) cable
TA 197 LF-25	Deep water cond sensor w/82ft (25m) cable
ADA/TA 197 pH	Connection accessory for up to three sensors

Multi 3500i Portable Multiparameter Meter

Multiparameter meter for monitoring pH, mV, oxygen, conductivity and ISE

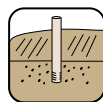
Description

With its ability to measure pH, mV, oxygen, conductivity and ISE, the Multi 3500i, Portable Multiparameter Meters are the perfect choice for all of your water, wastewater and environmental field measurement needs. Like all WTW field instruments, the Multi 3500i is designed to stand up to the rigors of daily plant and field conditions while being accurate and easy to use. The meter's bright backlit screen can display pH, oxygen, conductivity and temperature simultaneously.

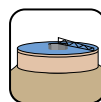
Easy to use, the Multi 3500i feature a high resolution, high precision, simple, menu-driven user interface. The meter has a datalogger, memory for 1,800 data sets and a real-time clock that support good

laboratory practice (GLP) requirements. The Multi 3500i will not let you down with their built-in NiMH rechargeable battery for up to 500 hours of continuous measurements (AC adaptor included). Combined with the MPP 350 multiparameter probe the digital multiparameter meter is ideal for environmental field measurements. But the Multi 3500i are also at home in your lab when used with the ConOx conductivity/oxygen sensor. In addition, all the currently compatible WTW pH, combination ion specific, oxygen and conductivity sensors can be used to extend the usefulness of the portable multiparameter meter.

Applications



Ideal for ground water, surface water, fish farming, wastewater.



Specifications

pH/ORP Range/Resolution	pH: -2.000 to 20.000 / 0.001 -2.00 to 20.00 / 0.01 mV: -999.9 to +999.9 / 0.1 -2000 to +2000 / 1 Temp.: 23 to 221 °F (5.0 to 105.0 °C) / 0.1 (0.1)
Oxygen Range/Resolution	O ₂ Concentration: 0.00 to 19.99 mg/l / 0.01 0.0 to 90.0 mg/l / 0.1 O ₂ Saturation: 0.00 to 199.9% / 0.1 0.0 to 600% / 1 Temp: 32 to 122 °F (0.0 to 50.0 °C) / 0.1 (0.1)
Conductivity Range/Resolution	Conductivity: 0 to 1999 µS/cm / 1 0.00 to 19.99 mS/cm / 0.01 0.0 to 199.9 mS/cm / 0.1 0 to 500 mS/cm / 1 Salinity: 0.0 to 70.0 according to the IOT table / 0.1 Temp: 23 to 221 °F (5.0 to 105.0 °C) / 0.1 (0.1)
ISE Range/Resolution	ISE: 0.000 to 2000 mg/l in 4 ranges / 0.001 to 1 in 4 ranges
Serial Interface	Baud Rate: Adjustable: 1200, 2400, 4800, 9600, 19200 Type: RS232, data output Data Bits: 8 Stop Bits: 8 Parity: None Handshake: RTS/CTS Cable Length: Max. 49 ft (15 m)

Ambient Conditions	Storage: -13 to +149 °F (-25 to +65 °C) Operation: 14 to 131 °F (-10 to +55 °C) Climatic Class: 2
Power	Rechargeable Batteries: 4 x 1.2 V nickel metal hydride (NiMH), type AA Operational Life: up to 500 h with one battery charging Plug-in Power Supply (Charging Device): Input: 100 to 240 V ~ / 50 to 60 Hz / 400 mA Output: 9 V = / 1.5 A Connection max. overvoltage category II
IP Rating	IP-66
Certifications	cETLus, CE
Electrical Safety	Protective class III
Weight	0.7 lbs (0.3 kg) (without plug-in power supply)
Size	6.8x3.1x1.5 in (172 x 80 x 37 mm)



Features

- Accurate, rugged and easy to use
- Displays three parameters at once
- Works with the new MPP 350 multi-parameter probe

Ordering & Options

Order No.	Description
Multi 3500i Kit	Portable Multiparameter Meter
MPP 350-3	Combined pH, oxygen, conductivity probe, without pH sensor
ConOx-3	Cond/O ₂ combination sensor

NOTE: Other cable lengths available, please call

“Don't you realize that the sea is the home of water? All water is off on a journey unless it's in the sea, and it's homesick, and bound to make its way home someday.”

– Zora Neale Hurston

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