

Macro 900 Water Quality System

More than a meter and a heavy-duty probe, the Macro 900 Water Quality System is a full monitoring station built for application specific configuration and short to medium term field deployment.

- Fully customisable for your own application
- Guaranteed long life with Kevlar cables
- Store 1000 data sets for full data analysis
- Perform location tracking and analysis with in-built GPS



Creating your bespoke Macro 900 Water Quality System is a simple process of combining three core components:

• **The Macro 900 Meter** – completely waterproof and supplied in a rugged carry case with space for probes and accessories. The Meter provides data capture (3000 sets), probe configuration and calibration whilst also measuring atmospheric pressure (for automatic DO correction) and GPS position.

• **The Macro Accessory Probe (MAP)** – manufactured in anodized marine-grade aluminium, the MAP is available with or without depth. Including pH/ORP, temperature, conductivity, TDS, salinity, resistivity, SSG and optical DO as standard, the probes are designed for up to 30m immersion and narrow enough for boreholes insertion.

• **Accessories** – fully bespoke your system by selecting the Kevlar-reinforced cable length(s) of up to 30m, ion selective electrodes and/or optical probes for additional parameters plus calibration solutions and other system hardware.

The MacroLink software suite included provides professional data reports including results mapped to geographical outputs



Product	Part Code
Macro 900 Meter and case	PT1401
MAP 2000 Probe with core parameters	PT1528
MAP 2100 Probe with core parameters plus depth	PT1529

	Range	Resolution	Accuracy
pH	0 - 14	0.01	±0.01
ORP	-2000 to 2000 mV	0.1 mV	±5 mV
Temperature	-5 to 50 °C	0.01°C	±0.1°C
Conductivity (EC)	0 to 200,000 µS/cm	1 (0 to 9,999 µS/cm) 0.01 (10.00 - 99.99 mS/cm) 0.1 (100.0 - 200.0 mS/cm)	±1% of reading or ±1µS/cm, whichever is greater
Total Dissolved Solids	0 to 100,000 mg/L	1 (0 - 9,999 mg/L) 0.01 (10.00 - 100.00 g/L)	±1% of reading or ±1 mg/L, whichever is greater
Resistivity	5Ω.cm - 1MΩ.cm	1 (5 - 9,999 Ω.cm) 0.1 (10.0 - 1,000.0 kΩ.cm)	±1% of reading or ±1 Ω.cm, whichever is greater
Salinity	0 - 70 PSU 0 - 70.00 ppt (g/kg)	0.01PSU 0.01 ppt	±1% of reading or ±0.1 unit, whichever is greater
Seawater Specific Gravity	0 - 50 σ	0.1 σ	±1.0 σ
Dissolved Oxygen	0 - 50 mg/L 0 - 500% saturation	0.01 0.1%	±1% (0 - 20 mg/L/0 - 200%) ±10% (20 - 50 mg/L, 200 - 500%)
Depth (MAP 2100)	± 0 - 60 m	0.01m	±2%

Optional Accessories Cables	Part Code
Kevlar-reinforced inner with all metal connectors for high integrity connection. Bespoke lengths available on request.	
3m	PT1530
10m	PT1531
20m	PT1532
30m	PT1533

Optional Probes		
Up to two ISEs or one ISE and one optical probe can be inserted simultaneously, and exchanged or removed as required.		
Ion Selective Electrodes (ISE)	Range	Part Code
Ammonia/Ammonium	0 - 9,000 mg/L	PT1541
Calcium	0 - 2,000 mg/L	PT1544
Chloride	0 - 20,000 mg/L	PT1543
Fluoride	0 - 1,000 mg/L	PT1545
Nitrate	0 - 30,000 mg/L	PT1542

Optical Probes	Range	Part Code
Blue-Green Algae (fresh water)	0 - 300,000 cells/mL	PT1552
Blue-Green Algae (seawater)	0 - 300,000 cells/mL	PT1553
Chlorophyll	0 - 500 µg/L	PT1556
Dissolved Organic Material (CDOM/FDOM)	0 - 20,000 µg/L	PT1558
Fluorescein	0 - 500 µg/L	PT1555
Refined Oil (Hydrocarbons)	0 - 10,000 µg/L	PT1557
Rhodamine WT	0 - 500 µg/L	PT1554
Turbidity	0 - 3,000 NTU	PT1551

Additional Accessories	Part Code
Flow Cell (for use with third-party pumping device)	PT1570
Probe Hanger	PT1571