

## 2IFA-1000 Water Quality Tool

The 2IFA-1000 water quality probe measures **pressure, temperature, fluid conductivity (dual range), pH, dissolved oxygen, and oxidation-reduction potential (redox)**. **Salinity** is calculated automatically using temperature, conductivity, and pressure, using the UNESCO formula. Various sensor arrangements exist so please contact us for details. Other sensors, including nitrate, chloride, and ammonia are also available.

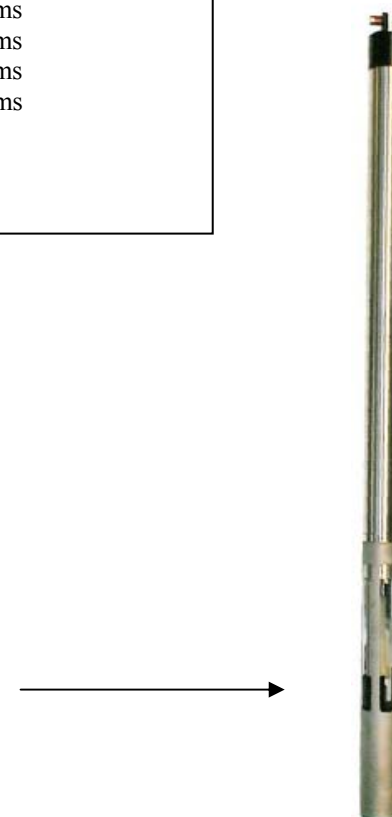
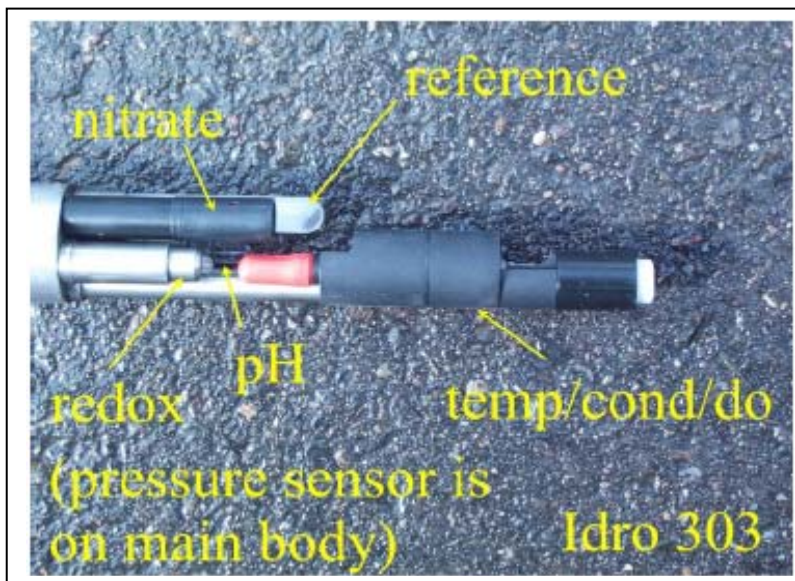
This Idronaut probe is modified to operate on the **MATRIX** digital logger. The modification includes a new downhole power supply and FSK modem. This allows the **MATRIX** to power the probe and communicate with the Idronaut probe.

The probe is powered with 50 VDC, and sends data to the surface at 9600 baud, even parity, 8 data bits, and one stop bit.

The probe comes in various pressure ratings, ranging from 300 dbar to 1500 dbar. Consult the factory for the rating for your probe.

**Sensor Specifications:**

Parameter	Range	Accuracy	Resolution	Time Cst
Pressure	0-1500 dbar	0.25% FS	0.1 dbar	50 ms
Temperature	-1 – 49°C	0.02°C	0.004°C	50 ms
Conductivity (Sea Wtr)	0 – 62 mS/cm	0.02 mS/cm	0.004 mS/cm	50 ms
Conductivity (Fr Wtr)	0 – 6200 $\square$ S/cm	2 $\mu$ S/cm	0.04 $\mu$ S/cm	50 ms
Oxygen	0 50 ppm	0.1 ppm	0.01 ppm	3 s
pH	0 – 14 pH	0.05	0.01	3 s
Redox	-1000 - +1000mV	10 mV	1mV	3 s



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