

MONITOR SENSORS

EC1

μSMART Conductivity sensor

The ***μSMART*** conductivity sensor is designed to measure the salinity concentration of a body of water. The sensor has 4 channels of readings – raw electrical conductivity, water temperature, normalised electrical conductivity to 25°C and 0...200 mg/l NaCl concentration.

The sensor ***Monibus*** interface allows the user to modify the sensor operation through the built-in sensor menus. The sensor incorporates a microprocessor to provide accurate, repeatable readings and to allow optional analogue outputs. The robust mechanical design ensures a long operational life.

- Mechanical**
- Stainless Steel body
 - High durability cable

Specifications

Range: EC1 0 ... 1000 μ Siemens/cm
0°C to +50°C

Accuracy: \leq 0.5% FSD 0 ... 500 μ S/cm
 \leq 2% FSD 500 ... 1000 μ S/cm
 \pm 0.3 °C 0 ... 50 °C

Operational: -20°C to +60°C submersible

- Output options:**
- ***Monibus*** serial data ASCII format
 - Voltage 0-1, 0-2.5 volts
 - 4-20mA (requires >12Vdc supply)
 - Frequency TTL pulse 2-10 Hz

Power Supply: 6-28 Vdc unregulated

Supply current: 3 mA active
0.5 mA economy mode

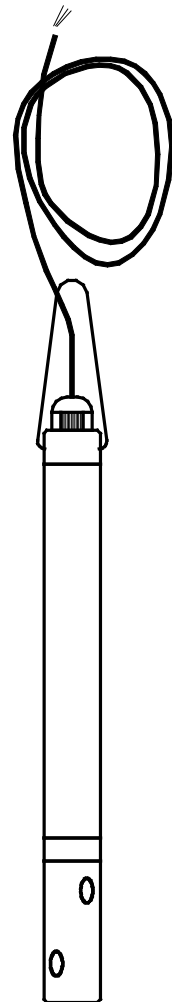
Sensor weight: 230 grams

Dimensions: Overall height – 450 mm x 38 mm \varnothing

Mounting: cable handle

Cable Details: Standard product has 5m of cable – other cable lengths may be ordered

Warranty: **12 months** – full details can be found in the Monitor Sensors standard warranty document
http://www.monitorsensors.com/docs/std_warranty.pdf



Order codes:

| | | | |
|--------------|------------------------------------|--|--|
| EC1 | standard sensor | | |
| EC1-1 | 0...1 volt output channels 1 & 2 | | |
| EC1-2 | 0...2.5 volt output channels 1 & 2 | | |
| EC1-4 | 4...20 mA output channels 1 & 2 | | |
| EC1-0 | 0...20 mA output channels 1 & 2 | | |

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