



Seawater temperature sensor

A25300 SP



This sensor measures the temperature of seawater.

- **Compact:**
easier integration
- **Complete:**
thermowell supplied
- **Fast:**
SOURIAU quarter-turn plug for easy mounting/removal

The seawater temperature needs to be measured because the ship's engines are cooled with seawater.

This sensor comprises a microcontroller central processing unit handling measurement acquisition and processing, as well as the settings and modification of the instrument's specific operating parameters.

Parameter modifications can be accessed on a PC by means of a USB-RS485 interface and the associated software.



Measure up



For more than 30 years, **Chauvin Arnoux Energy** has been implementing **complete solutions** dedicated to conduct of the ship, from the defense system to the supervision of the propulsion systems and electrical circuits.

▪ Specifications of the measurement channel

- **Analog input** Pt100 (3 wires)
- **Measuring range** -100 °C to +300 °C
- **Resolution** 0.1 °C
- **Accuracy** 2.10^{-4} reading +0.3°C
- **Acquisition time** 200 ms

▪ Specifications of the serial link

- **Type** Isolated RS 485 compliant with EIA 485
- **Mode** Half Duplex
- **Protocol** MODBUS RTU
- **Speed** 9600 bauds (1200 to 38400 Bd)
- **Transmission format**
 - 1 start bit
 - 8 data bits
 - 1 parity bit (even, odd or without)
 - 1 stop bit

▪ Environmental specifications

- **Temperature:** -20 to +70°C in operation
- **Pressure:** 700 mbar < P < 1300 mbar
- **Hygrometry:** 10 to 95% RH
- **Roll, Pitch, List, Trim** No effect

▪ Mechanical specifications

- **Overall dimensions** 239 x 84 x 140 mm
- **Body material** Aluminum
- **Probe material** Stainless steel
- **Thermowell material** Cupro Aluminum
- **Weight** ~ 0.95 Kg

▪ Electrical specifications

- **Power supply** DC voltage from 12 to 35 V=
- **Consumption** 60 mA at 28V=
- **Connection** Output via HE10 connector, plug supplied (plate 1)



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