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Fast OEM Temperature sensor with high resolution

For depths of up to 6,000 m – with analogue and RS232 output



The new OEM temperature sensor was developed for very fast temperature measurements with very high resolution and high accuracy in seawater. The sensor can be combined with submersible probe systems or as single OEM sensor for AUVs and ROVs. Both an analogue (0-5 V DC) and a digital output (RS232) is available. On customer request different connectors with different connector materials can be ordered.

Main features:

- ☞ measuring range: -2...35°C
- ☞ measuring principle: Pt100
- ☞ time constant: 100 ms
- ☞ accuracy: 0.005°C
- ☞ resolution: 0.0005°C
- ☞ pressure range: up to 6,000 dbar
- ☞ required power supply: 9...24 V DC
- ☞ power consumption: 25 mA
- ☞ analogue signal output: 0 ... + 2.5 V DC
- ☞ digital signal output: RS232, 16 bit
- ☞ data protocol: ASCII
raw data XXXXXCR
- ☞ dimensions: diameter: 25 ± 0.3 mm
length, total including connector: 166 mm over all
- ☞ connector: MCBH5M (stainless steel)
- ☞ pin assignment: 1 - power ground
2 - analogue ground
3 - analogue output 0-5 V
4 - power
5 - RS232, 4800, 8, o, 2
- ☞ housing material: titanium

fig.: Fast response temperature sensor for deep sea use