Temperature Sensor 4060

is a compact fully integrated sensor for measuring the water temperature. The sensor is designed to be mounted on the Aanderaa SeaGuard Platform. The sensor can also be used as stand alone (RS232), and is easily integrated in other measurement systems with third party dataloggers.

Temperature Sensor 4060 advantages:
- Smart Sensor technology
- Plug and Play Sensor
- Calibration coefficients are stored in the sensor
- Depth rating of 6000 meters
- Short response time, less than 2 seconds
- Rugged and Robust with minimal and simple maintenance needs
- Resolution: 0.001°C
- Output format: AiCaP CANbus, RS232

The Temperature Sensor 4060 is an intelligent sensor designed to be used on Aanderaa SeaGuard Platform as well as in other measurement systems (RS232). The sensor is based on a thermistor-bridge. A Digital Signal Processor controls the sampling of the bridge and calculates the calibrated temperature in engineering units. The sensor is housed in a rugged titanium cylinder.

When mounted onto an Aanderaa SeaGuard Platform, the sensor output signal is by default engineering data. Raw data can be selected as additional output.
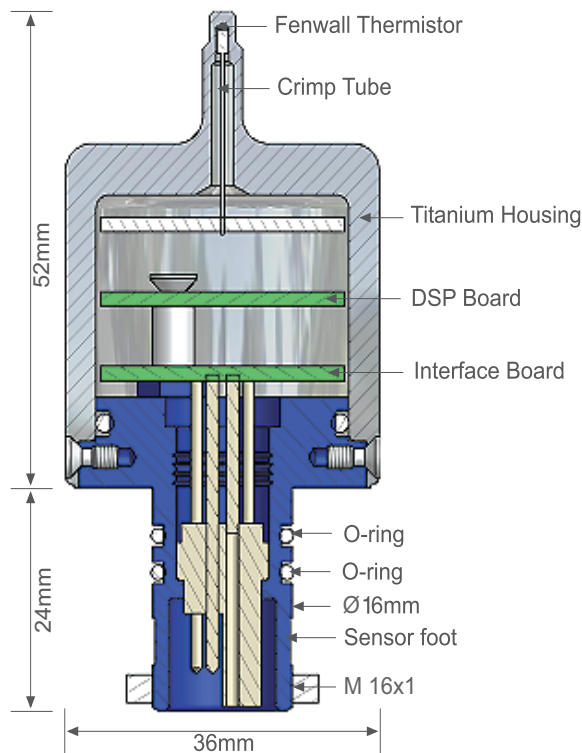
Temperature Sensor 4060 can be mounted directly on the top end plate of the Aanderaa SeaGuard Platform. The sensor is automatically detected and recognized by the SeaGuard.
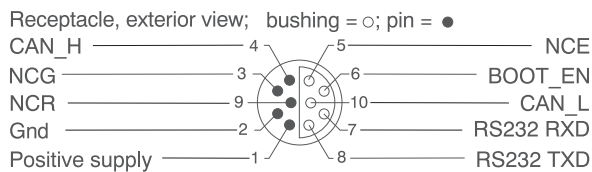
Sensor data is also available as RS232 output when used as stand alone sensor in integration with other dataloggers.

The 10-pin receptacle in the sensor foot mates with Aanderaa SP plug giving access to RS232 output.

For connection to a Personal Computer (PC) Sensor Cable 4865 can be used. It is furnished with a watertight 10-pin plug at the sensor end. An additional USB plug is used for providing power to the sensor.

Fenwall Thermistor
Crimp Tube
Titanium Housing
DSP Board
Interface Board
O-ring
O-ring
Ø16mm
Sensor foot
M 16x1

52mm
24mm
36mm

PIN CONFIGURATION
Receptacle, exterior view;   bushing = ○; pin = ●

CAN_H	4	5	NCE
NCG	3	6	BOOT_EN
NCR	9	10	CAN_L
Gnd	2	7	RS232 RXD
Positive supply	1	8	RS232 TXD

Ordering information:
Remember to select Operating Depth (SW, IW or DW)
when ordering Temperature Sensor 4060.

Temperature:
Range:	-4 – 36°C (24.8 – 96.8˚F)[1]
Resolution:	0.001°C (0.0018°F)
Accuracy:	±0.03°C (0.054°F)
	±0.01°C (0.018°F)[2]
Response Time (63%):	<2 seconds

Output format: AiCaP CANbus, ASCII
RS232[3]

Sampling Interval: 1 sec – 255 min

Supply voltage: 6 to 14Vdc

Current drain(@ 9V):
Average (RS232):	14mA/S +0.25mA where S is the sampling interval in seconds
Maximum (RS232):	50mA
Quiescent:	0.25mA

Operating temp.:   -5 to +40˚C (23 – 104˚F)

Operating depth:
Shallow Water:	0 - 300m (0 - 984.3 ft)
Intermediate Water:	0 - 3000m (0 - 9 845 ft)
Deep Water:	0 - 6000m (0 - 19 690 ft)

Electrical connection: 10-pin receptacle mating SP (Sealing Plug)

Dimensions (DxH):   OD: 36 x 76mm
(OD: 1.4"x3")

Weight: 120g (4.23oz)

Materials: Titanium and Epoxy coating

**Accessories
(not included):**   RS-232 SP free end cable 4762
RS-232 SP to PC cable 4865
Real-Time Collector 4807A

[1] Extended calibrated range available on request.
[2] Available on request
[3] 9600 baud, 8 data bits, 1 stop bit, No parity, Xon/Xoff Handshake

The above specifications are for the stand-alone sensor only, not the installation it is utilized with.

Specifications subject to change without prior notice.

xylem
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