



## TEMPERATURE SENSOR 4060

*Temperature Sensor 4060 is a compact fully integrated sensor for measuring the water temperature. The sensor is designed to be mounted on the AADI 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
- Accuracy:  $\pm 0.03^{\circ}\text{C}$
- Output format: AiCaP CANbus, RS232

The Temperature Sensor 4060 is an intelligent sensor designed to be used on AADI 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 AADI 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

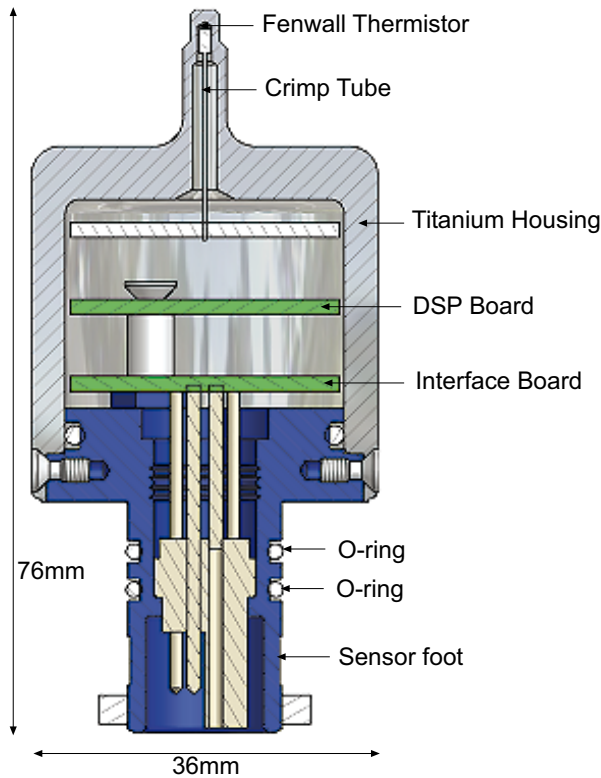
of the AADI SEAGUARD® Platform. The sensor is automatically detected and recognized by the SEAGUARD®.

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 AADI Aanderaa CSP (Cylindrical Sealing 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.

# Specifications for 4060

D363 - February 2010



**Temperature:**

*Range:* -4 – 36°C (24.8 – 96.8°F)<sup>(1)</sup>  
*Resolution:* 0.001°C (0.0018°F)  
*Accuracy:* ±0.03°C (0.054°F)  
*Response Time (63%):* <2 seconds

**Output format:**

AiCaP CANbus, ASCII RS232<sup>(2)</sup>

**Sampling Interval:**

1s – 255 minutes

**Supply voltage:**

6 to 14Vdc

**Current drain(@ 9V):**

*Average (RS232):* 14mA/S +0.25mA where S is the sampling interval in seconds

*Maximum (RS232):* 50 mA

*Quiescent:* 0.25 mA

**Operating temp.:**

-5 to +40°C (23 – 104°F)

**Operating depth:**

*Shallow Water (SW):* 0 - 300 m (0 - 984.3 ft)

*Intermediate Water (IW):* 0 - 2000 m (0 - 6 560 ft)

*Deep Water (DW):* 0 - 6000 m (0 - 19 690 ft)

**Electrical connection:**

10-pin receptacle mating CSP (Cylindrical Sealing Plug)

**Dimensions (DxH):**

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

**Weight:**

120g (4.23oz)

**Materials:**

Titanium and Epoxy coating

**Accessories:**

*not included:*

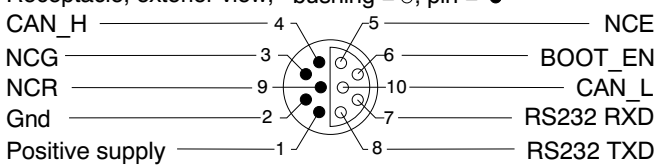
RS-232 CSP free end cable 4762

RS-232 CSP to PC cable 4865

Real-time license and Collector 4715

**PIN CONFIGURATION**

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



<sup>(1)</sup> Extended calibrated range available on request.

<sup>(2)</sup> 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.*

**Ordering information:**

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

Latest version on internet

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Representative's Stamp

