

Pliant: readily yielding to influence



AD34

### **AD34 Temperature Sensor**

The **AD34** Submersible Temperature Probe may be used for measurement of water or air temperature. An easy-to-use sensor with linear output, the AD34 provides a cost-effective solution in applications that do not require high-precision. It has an input range of  $-50^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  and full-scale linearity error of  $\pm 1.5^{\circ}\text{C}$ . The output range is 0-2.5V.

The AD34 includes 2 metres of cable but can be ordered with additional length up to 35m.

### **Installation**

1. Connect the red wire of the AD34 to a 5VDC supply. On **PDAS** loggers this terminal is labelled '5VDC REF'.
2. Connect the white wire to an analog input with a range of at least 0-2.5VDC. Use channel 3 or 4 if connecting to a rev C or D **PDAS** logger. Select any channel if connecting to a rev E (or later) **PDAS** logger.
3. Connect the black wire to the analog ground terminal.

### **Data Conversion**

The voltage output of the sensor is converted to degrees  $^{\circ}\text{C}$  using the following SCALE and OFFSET:

SCALE = 70

OFFSET = -50

### Connection to PDAS logger

When the AD34 is connected to a **PDAS** logger the user may configure it as follows:

**Main Menu → System Setup → Sensor Setup → External A/D Channels.**

Select the channel to which you are connected (must be #3 or #4 on rev C and D units). Select an input range of 0-2.5VDC, then “**Temperature AD34**” from the list of output formats. The data from this analog channel will henceforth be in units of °C.

### Specifications

#### Sensor

LM50CIM3-ND SM

#### Sensor Output

0-2.5VDC

#### Accuracy

+/-1 °C F.S.

#### Connections

Tinned wire ends as follows:

- RED: 5VDC REF (supply)
- BLACK: GROUND
- WHITE: 0-2.5V output

#### Environmental Characteristics

Operating : -40 to +125 C

#### Physical Characteristics

Width – approx. 10 mm. (0.4 in)

Length – approx. 40 mm. (1.5 in)

The above information is believed to be true at the time of printing. AMASS Data Technologies Inc. reserves the right to modify specifications without notice. All trademarks are owned by their respective companies.

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