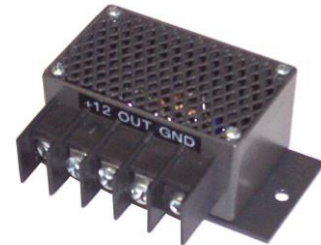




# Indoor/Outdoor Temperature Sensor · TS4085-I/-O

The temperature sensor unit (TS4085) has been specifically designed to monitor indoor and outdoor temperature with the Davicom Remote Monitoring and Control Units. It has a measurement range of -40°C to +85°C with an accuracy of ±1°C. The TS4085 operating voltage range is 6 to 15 VDC. It features low self-heating, linear +10.0mV/°C (18.0 mV/F) scale factor, less than 100µA drain current at 15VDC, and low impedance output. The TS4085 is also available in a weatherproof housing for outdoor installation (TS-4085-O) and is provided with a standard 15m long weather-resistant cable (RED WIRE: 6-15V, BLACK WIRE: GND, WHITE WIRE: OUT).



Indoor model



Outdoor model

| ELECTRICAL SPECIFICATIONS |                |
|---------------------------|----------------|
| Supply Voltage:           | 6 - 15VDC      |
| Temperature range:        | -40°C to +85°C |
| Accuracy:                 | ±1°C           |
| Output Voltage:           | 2.1 VDC MAX.   |
| Output impedance:         | <0.1Ω          |
| Sensor gain:              | 10mV/°C        |
| Sensor offset:            | 1.25V at 0°C   |

The output voltage can be easily converted to either °C or °F using the following formulas:

$$T(^{\circ}\text{C}) = 100 \times (V - 1.25)$$

$$T(^{\circ}\text{F}) = 180 \times (V - 1.25) + 32$$

where V is the voltage (in volts) measured at the OUT terminal.

| MECHANICAL SPECIFICATIONS |  |
|---------------------------|--|
| Indoor model:             | 3 x 2 x 1 in<br>75 x 52 x 32 mm<br>(W x D x H)<br>Weight: 3 oz (85g)         |
| Outdoor model:            | 2.75 x 1.75 x 5 in<br>70 x 45 x 130 mm<br>(W x D x H)<br>Weight: 6 oz (170g) |