

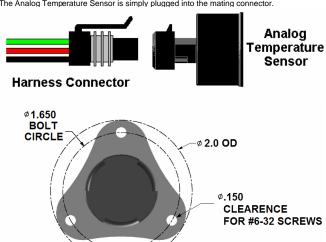
Analog Temperature Sensor Class1 PN 108121 **Quick Manual**

OVERVIEW

The Analog Temperature Sensor is a compact, waterproof module that converts ambient temperature (-40°C to +125°C) to an analog voltage (174mV to 1205mV).

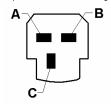
INSTALLATION

The Analog Temperature Sensor is simply plugged into the mating connector.



WIRING

The Analog Temperature Sensor has a single 3-pin connector.



Insertion view

ATS Connector

A-Ground INPUT (ground) (+2.7V to +10V) (+174mV to +1205mV) B - Power INPLIT C – Signal OUTPUT

Mating connector

3 pin Metripack (Packard) 12078090

12089290

12052893 Weather seal

SPECIFICATIONS

Accuracy at 25°C ±3.0°C (max) Accuracy for -40°C to +125°C ±4.0°C (max) + 6.25mV/°C Temperature slope

Manual PN 108371

Rev042605

Input voltage +2.7V to +10V Current drain (@25°C) 110uA (max) Nonlinearity ±0.8°C (max) +174mV to +1205mV Output range

OUTPUT VOLTAGE DEFINITION

 $Vout = (Tslope \times Tc) + Voffset$

Tslope = +6.25mV/°C

Тс = Temperature in Celsius

= +424mV Voffset

ass

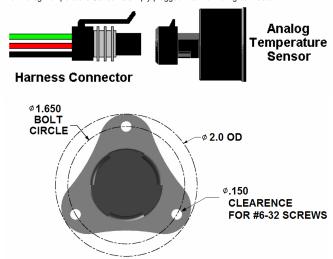
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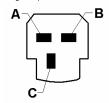
INSTALLATION

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WIRING

The Analog Temperature Sensor has a single 3-pin connector.



Insertion view

ATS Connector

A – Ground INPUT (around) B - Power INPUT C - Signal OUTPUT (+2.7V to +10V) (+174mV to +1205mV)

Mating connector

12078090 3 pin Metripack (Packard) 12089290 Weather seal 12052893

SPECIFICATIONS

Accuracy at 25°C $\pm 3.0^{\circ}$ C (max) Accuracy for -40°C to +125°C $\pm\,4.0^{\circ}\text{C}$ (max)

Temperature slope + 6.25mV/°C Input voltage +2.7V to +10V

Current drain (@25°C) 110uA (max)

Nonlinearity $\pm\,0.8^{\circ}\text{C}$ (max) +174mV to +1205mV Output range

OUTPUT VOLTAGE DEFINITION

 $Vout = (Tslope \times Tc) + Voffset$

Tslope = +6.25mV/°C

= Temperature in Celsius Тс

Voffset = +424mV

> Manual PN 108371 Rev-042605