assistant telematics

1-WIRE TEMPERATURE SENSOR

AT100 Product datasheet

GENERAL DESCRIPTION

The AT100 digital thermometer provides 9-bit to 12-bit Celsius temperature measurements and has an alarm function with nonvolatile user-programmable upper and lower trigger points.

The AT100 communicates over a 1-Wire bus that by definition requires only one data line (and ground) for communication with a central microprocessor.



GENERAL DESCRIPTION

ITEM	DETAILS
Product name	AT100
Application	Temperature monitoring
Protocol	1-Wire technology
Compatibility	Any telematics device with 1-wire interface

TECHNICAL INFORMATION

PARAMETER	DETAILS
Operating temperature	-55°C to +125°C
Measurement range	-55°C to +125°C
Accuracy	±0.5°C Accuracy from -10°C to +85°C
Resolution	9 Bits to 12 Bits
Power supply	0.5V to +6.0V
Wiring	Brown - VCC | Green - GND | White - Data