



1-Wire Digital Temperature Transmitter

Sensor Probe with fixed cable (various lengths available)

Typical Applications:

- HVAC & Refrigeration Systems & Applications
- General Industrial Systems & Applications
- General Commercial Systems & Applications

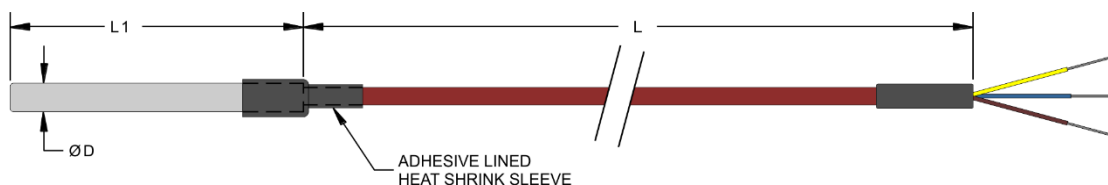
Sensor Technical Specifications

Measuring Range	-55°C to +125°C (-67°F to +257°C)
Accuracy	±0.5°C from -10°C to +80°C
Output	Digital: 1-Wire Protocol Interface
Resolution	9 to 12 bits (Programmable)
Identifier	Each individual sensor has a Unique 64-bit serial code store in its on-board ROM
Drift	max ±0.2°C per 1000 hours of continuous operation at 125°C
Power Supply	3.0V to 5.5V (DC)
IP Protection Rating	IP67
Probe Sheath Material	Stainless Steel 316

Sensor Cable Specification

Cable Type	Multicore Flexible Cable (Unscreened)
Insulation	Silicone Rubber
Cable Properties	Weather-proof cable for static use
Cores & Nominal Section	3 x 0.35 mm ²
Outer Diameter	5mm
Max. Electric Resistance at 20°C	55.70 Ohm/km
Length Options	1m / 3m / 5m / 10m / Custom User Request
Nominal Working Temperature	-60°C to +180°C
Peak Working Temperature	+210°C
Nominal Voltage	300/500 V
Voltage Test	2 kV
References: Conductor	IEC EN 60228 Class 5
References: Halogen Free	EN 50267-2-1

Sensor Layout & Cable Cores



Electrical Connections (with reference to cable cores colours)

Green (GN)	Data – 1-Wire bus
Blue (BL)	GND (Ground)
Brown (BR)	Power Supply (+5VDC)

Dimensions

L1	50mm
D	6mm
L	Various cable lengths available: 1m (standard version), 3m, 5m and 10m. Other cable lengths available upon request).

Quality Tests

IP67 Verification Test	Operational test with the sensor probe submersed at a depth of 3m in a fresh-water tank for 5 hours.
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Certificates

EC Conformity	EMC 2014/30/EU EN 61326-1:2013
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Ordering code AP-150-151

	AP-150-901-			
Cable Length				
	1m	0	1	
	3m	0	3	
	5m	0	5	
	10m	1	0	

IMPORTANT NOTICE

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No ME components are authorized for use in FDA Class III (or similar life-critical medical or life-support equipment) unless authorized officers of the parties have executed a special agreement specifically governing such use.

Revision No: 3 Revision Date: 05/01/2020
