

ATE-2 Handheld Calibrator

OPTIONAL TEMPERATURE MODULE FEATURES

- Measures temperature with most RTD probes
- Supports 2, 3 & 4-wire RTDs
- Displays measurement for Fahrenheit, Celsius, Kelvin, Rankine and ohms
- Easy configurability to meet application requirements

The Ashcroft ATE-2 provides accurate temperature measurement when using the AM2-RT module with an RTD probe. This system supports the most common RTD's without requiring operator input of probe characterization data; each module comes factory-programmed with standard curves for Pt100 (385 & 392), Ni 120, Cu 10 and temperature probes.

The setup menu allows the operator to choose configurations for 2, 3 or 4 wire RTD probes and decimal resolution. The temperature measurement system includes the ability to automatically track minimum / maximum values.

RTD TEMPERATURE MODULE SPECIFICATIONS: Following specification is based on use of 4 wire RTD probe; accuracy does not include contribution from RTD

Part Number:
AM2-RT1, AM2-RT2

AM2-RT1 MODULE		
Used with RTD Probe Type	Measurement Range and Accuracy	Resolution*
Pt100 (385 & 392)	-200 to 550°C: ±0.15°C 550 to 850°C: ±0.2°C	0.01°C or F
Ni 120	-80 to 260°C: ±0.1°C	0.1°C or F
Cu 10	-70 to 150°C: ±0.6°C	0.1°C or F
Ohms	±0.01% reading ±0.02 ohms	0.004 ohms

AM2-RT2 MODULE		
Used with RTD Probe Type	Measurement Range and Accuracy	Resolution*
Pt1000	-200 to 550°C: ±0.15°C	0.01°C or F
Ohms	±0.01% reading ±0.02 ohms	0.004 ohms

*Select from 1, 0.1, 0.01 and 0.001 degrees or ohms. Resolution for a given probe is dependent on the output of the probe. Maximum resolution is 1 part in 100,000 of full scale ohms Select from 1, 0.1, 0.01 and 0.001 degrees or output for the probe.

Temperature Error: Better than ±0.0005% of reading per degree Fahrenheit from a reference temperature of 70° ±3° degrees F°

Input Receptacle: TA4F type RTD connector

HOW TO ORDER RTD PROBES FOR USE WITH AM2-RT1 MODULE

Probes are all 4 wire RTD's with 304 stainless steel sheath an a installed TA4F electrical connector for compatibility with AM2-RT1 interface modules. They are provided in DIN Class A accuracy.

HOW TO ORDER RTD PROBES

Part No.	Description
840X010-01	Pt100 (385), 0.125 diameter, 12 inch length, handle and 5 ft. coiled cable
840X010-02	Pt100 (385), 0.25 diameter, 12 inch length, handle and 5 ft. coiled cable
840X010-05	Pt100 (385), 0.125 diameter, 6 inch length, handle and 5 ft. coiled cable
840X010-06	Pt100 (385), 0.25 diameter, 6 inch length, handle and 5 ft. coiled cable
840X010-11	Pt100 (385), 0.125 diameter, 8 inch length, handle and 5 ft. coiled cable
840X010-03	Pt100 (385), 0.125 diameter, 12 inch length, handle and 10 ft. coiled cable
840X010-04	Pt100 (385), 0.25 diameter, 12 inch length, handle and 10 ft. coiled cable
840X010-07	Pt100 (385), 0.125 diameter, 6 inch length, handle and 10 ft. coiled cable
840X010-08	Pt100 (385), 0.25 diameter, 6 inch length, handle and 10 ft. coiled cable
828X136-01	TA4F mating connector for use with AM2-RT1 module and user supplied RTD probe

