SPECIFICATIONS



GENERAL			
Dimensions	6.65 in x 4.40 in x 1.41 in (168.9 mm x 111.8 mm x 35.8 mm) Data logger only		
Touch Screen Dimensions	5 inches		
Number of Channels	8		
Weight	1.3 lbs (20.8 oz)		
IP Rating	IP20		
Start Modes	Immediate Start & Delay Start		
Memory	1,000,000 or 5,000,000 readings		
Battery Type	Rechargeable 3.7 V Lithium Ion Battery Pack		
Battery Life	Continuous on-screen sampling: 7–9 hours depending on display setting and reading rate Stand-by mode: 100 hours		
Data Format	Exported .csv file format, .mtb or both		
Time Accuracy	±1 minute/month		
Operating Environment	0 °C to +50 °C (32 °F to +122 °F) 0 %RH to 95 %RH non-condensing		
Enclosure Material	Polycarbonate, TPE Protective Boot		
Calibration	Factory calibration is recommended annually		

Cutibiation	ractory can bration is recommended annually				
0 - 24 mA					
Range	-5 mA to 50 mA				
Resolution	0.0001 mA				
Accuracy	±0.024 mA (0 to 24 mA)				
Input Impedance	30 Ω				
0 - 100 mV					
Range	-100 mV to 2450 mV				
Resolution	0.0001 mV				
Accuracy	±0.1 mV (0 to 100 mV)				
Input Impedance	1 GΩ				
Maximum Voltage	3.0 V				
0 - 10 V					
Range	-0.5 V to 12.0 V				
Resolution	0.0001 V				
Accuracy	± 0.01 V (-0.5 V to 12.0 V)				
Input Impedance	1 GΩ				

Specifications subject to change.

25 V

Maximum Voltage

FREQUENCY / PUL	SE		
Maximum Count	4,000,000,000		
Maximum Frequency	25 KHz		
Input Signal	0 V to 12 V		
Input Impedance	58 ΚΩ		
TEMPERATURE PT	-100 (2-WIRE RTD) (0.00385 CURVE)		
Range	-200 °C to +850 °C (Probe Dependent) (18.5 Ω to 390.5 Ω)		
Resolution	0.01 °C		
Accuracy	$\pm 0.1^{\circ}\text{C}$ (-200 °C to +400 °C) (Probe Dependent) $\pm 0.034\Omega$ (18.5 Ω to 247.1 $\Omega)$		
TEMPERATURE PT	-100 (3-WIRE RTD) (0.00385 CURVE)		
Range	-200 °C to +850 °C (Probe Dependent) (18.5 Ω to 390.5 Ω)		
Resolution	0.01 °C		
Accuracy	± 0.1 °C (-200 °C to +400 °C) (Probe Dependent $\pm 0.034~\Omega$ (18.5 Ω to 247.1 $\Omega)$		
TEMPERATURE PT	-100 (4-WIRE RTD) (0.00385 CURVE)		
Range	-200 °C to +850 °C (Probe Dependent) (18.5 Ω to 390.5 Ω)		
Resolution	0.01 °C		
Accuracy	± 0.1 °C (-200 °C to +400 °C) (Probe Dependent) $\pm 0.034~\Omega$ (18.5 Ω to 247.1 Ω)		
TEMPERATURE N	C-1 (2252)		
Range	-25 °C to +150 °C (Probe Dependent) (29,380 Ω to 41.9 Ω)		
Resolution	0.01 °C		
Accuracy	±0.50% FSR (Probe Dependent)		
TEMPERATURE N	C-2 (10K)		
Range	-25 °C to +150 °C (Probe Dependent) (102,900 Ω to 238 Ω)		
Resolution	0.01 °C		
Accuracy	±0.50% FSR (Probe Dependent)		

RTD Note (All RTD Configurations)

Temperature Specifications based on ideal 100 Ω PT RTD Complaint with IEC 751(1983) and ITS-90. Accuracy based on 4-wire configuration.

BATTERY WARNING: Battery may explode or catch fire if mistreated. Do not disassemble or dispose of in fire. Do not charge except specified with charging condition. Do not heat above 212 °F, or short circuit. Do not crush or modify.



SPECIFICATIONS



THERMOCOUPLE TYPE	RANGE	RESOLUTION	ACCURACY
J	-200 °C to +760 °C	0.1 °C	±0.5 °C
К	-270 °C to +1370 °C	0.1 °C	±0.5 °C
Т	-270 °C to +400 °C	0.1 °C	±0.5 °C
Е	-270 °C to +980 °C	0.1 °C	±0.5 °C
R	-50 °C to +1760 °C	0.5 °C	±2.0 °C
S	-50 °C to +1760 °C	0.5 °C	±2.0 °C
N	-270 °C to +1300 °C	0.1 °C	±0.5 °C
В	50 °C to 1820 °C	0.5 °C	±2.0 °C

Measurement Accuracy

- At room temperature (25 °C ±10 °C) after 60 minute warm-up period.
- Temperature calibrated accuracy is thermocouple dependent.
- Accuracy does not include Cold Junction Compensation (CJC). CJC error: ±1.5 °C

Reading Rate Information

All channels will use the same reading rate.

Reading rates will be capped at 4 Hz when a temperature channel is selected.

- 4 KHz (Supports single channel of voltage or current measurement only)
- 2 KHz (Supports single channel of voltage or current measurement only)
- 1 KHz (Supports single channel of voltage or current measurement only)
- 500 Hz (Supports single channel of voltage or current measurement only)
- 250 Hz (Supports single channel of voltage or current measurement only)
- 100 Hz (Supports single channel of voltage or current measurement only)
- 50 Hz (Supports single channel of voltage or current measurement only)
- 25 Hz (Supports single channel of voltage or current measurement only)
- 10 Hz (Supports multiple channels of voltage or current measurement only)
- 4 Hz
- 1 Second
- 2 Seconds
- 5 Seconds
- 10 Seconds
- 15 Seconds
- 30 Seconds
- 1 Minute
- · 2 Minutes
- 5 Minutes
- 10 Minutes
- 15 Minutes
- 30 Minutes
- 1 Hour
- 2 Hours
- 5 Hours
- 10 Hours
- 12 Hours
- 24 Hours