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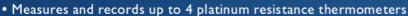


PT-104 Data Logger

Temperature, Resistance, Voltage

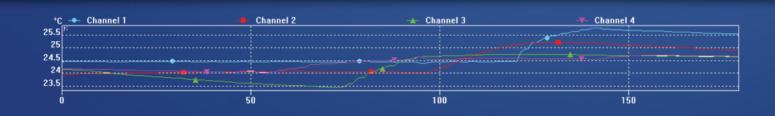
The ultimate in resolution and accuracy

0.001 °C 0.015 °C



- Works with PT100 and PT1000 sensors
- Supports 2, 3 and 4-wire sensors
- Measures voltage and resistance
- 24-bit ADC
- Uses calibrated reference resistors for stability
- · Supplied with PicoLog data logging software
- USB interface ensures easy installation
- Ethernet interface for remote operation
- Powered by USB port or Power-over-Ethernet (PoE)
- Multiple units can be run on a single PC





USB PT-104 PRT Data Logger



Flexible: Measures temperatures with either PT100 or PT1000 sensors, as well as resistance and voltage.

Adaptable: Can measure and record temperatures ranging from -200 °C to +800 °C.

Stable: Instead of voltage references,

which tend to drift with temperature, the PT-104 uses high-precision reference resistors.

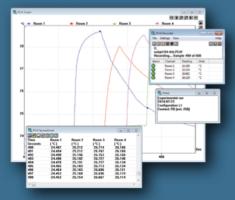
Expandable: Up to 20 units can be used simultaneously on one PC.

Portable: The PT-104 obtains its power from either the USB port or Power-over-Ethernet (PoE), so no additional power cable is needed.



PicoLog[®]

PicoLog is a powerful and flexible data acquisition program designed for collecting, analyzing and displaying data over long or short periods of time. Data can be viewed both during and after data collection in spreadsheet or graphical format. If required, the data can also be easily exported to other applications.



In addition to the monitor view, PicoLog can also display a graph, a spreadsheet and user notes. It can display them all at once, as shown here, or individually in any combination.

Software drivers

For users who wish to write their own software or use our products with third-party software, we provide, free of charge, a range of software drivers and examples. Drivers are included for Windows XP (SP3), Windows Vista and Windows 7, 8 and 10. The software development kit supports all C-compatible languages and programming examples are supplied for C, Visual Basic for Applications (Microsoft Excel) and National Instruments LabVIEW.

Specifications

	Temperature Resistance		Voltage			
Sensor	PT100, PT1000	N/A	N/A			
Ranges	–200 to +800 °C	0 to 375 Ω 0 to 10 kΩ	0 to 115 mV 0 to 2.5 V			
Accuracy (unit at 23 ±2 °C)	0.015 °C + 0.01% of reading	20 ppm @ 100 Ω	0.4%			
Temp. coeff. (unit)	N/A	5 ppm/°C	100 ppm/°C			
RMS noise with filter	0.01 °C	10 ppm	10 ppm			
Resolution	0.001 °C	1 μΩ	0.156 μV			
Overload protection	±30 V					
Number of inputs	4					
Converter resolution	24 bits					
Conversion time	720 ms per channel					
Input connectors	4-pin mini DIN					
Input impedance	>> 1 MΩ					
Output connectors	USB and Ethernet					
Power supply	USB or Ethernet					
	20 °C to 30 °C for stated accuracy					
Temperature range	0 °C to 70 °C operating					
	–20 °C to +80 °C storage					
Humidity range	20% to 90% RH, non-condensing, operating					
Tramidity range	5% to 95% RH, non-condensing, storage					
Dimensions	184 x 135 x 36 mm					
	(5.31 x 7.24 x 1.42 in.)					

Screw-terminal adaptor

Connects discrete wires to the PT-104 without soldering. Suitable for wire-ended sensors and custom circuits.



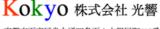
Pico Technology offers a range of platinum resistance thermometers (PRTs) for use with the PT-104. The PT-104 is compatible with all standard PT100 and PT1000 PRTs, which offer high accuracy, resolution and stability. All our probes have a stainless steel body and a 1 m long cable.

For full information on PRT specifications, characteristics and prices, go to:

www.picotech.com

ORDER CODES and PRICES					_
	DESCRIPTION	USD*	EUR*	GBP*	
	PT-104 Data Logger	659	559	459	

CODE PP682 PP660 Screw Terminal Adapter 10 SE011 PT-100 Temperature Sensor



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