

Optimizing Temperature Monitoring With the Pendotech Benchtop Transmitter



Accurate Temperature Measurement

The 4-20 mA output range of 0 to 70°C (32°F to 158°F) ensures precise and stable linearization of the sensor output.



Versatile Model Options

Available in 1-, and 4-channel configurations to suit different monitoring needs.



Durable Design

Constructed with a rugged ABS plastic enclosure for long-lasting performance and includes an LED power indicator on the front panel.



Easy Integration

Quick connections and compatibility with METTLER TOLEDO Pendotech Single-Use Temperature Sensor simplify setup and operation.



Reliable and Accurate Temperature Measurement

With Benchtop Transmitter

The METTLER TOLEDO Pendotech Temperature Sensor Benchtop Transmitter connects with the METTLER TOLEDO Pendotech Single-Use Temperature Sensor to produce a linear 4-20 milliamp signal that reflects temperature. It is available in models with 1 or 4 channels, and the electrical connections are located on the back of the device.

Connecting to the unit is quick and easy. It uses a 24 VDC wall supply that supports a universal voltage input of 100-250 VAC. The reusable temperature sensor cable conveniently plugs into the back of the unit. The 4-20 mA output can be transmitted to METTLER TOLEDO Pendotech products using the supplied interface cable. To maintain CE compliance, input wires should be limited to under 10 feet, matching the maximum length of the METTLER TOLEDO Pendotech reusable monitor cables. Note that extending wire length can increase resistance and impact accuracy, so additional extensions are not recommended.

Specifications

Enclosure	ABS plastic with rubber feet
Operating Voltage	24 VDC
Response Time [^]	500 mS to reach 70% of final value
Max Loop Resistance	800 ohms
Input/Output Isolation	Not isolated
Warm-up Time	2 minutes to full accuracy
EMC	Emissions : BS EN61326; Susceptibility: BS EN61326
Ambient Temp. Range	-20 to 80°C (-4°F to 176°F)
Ambient Storage	-40 to 80°C (-40°F to 176°F)
Ambient Humidity	0 to 95% (non-condensing)
Dimension	WxHxL - 6.25 inch x 3.125 inch x 3.063 inch (WxHxL -15.875 cm x 7.94 cm x 7.78 cm)
Weight	370 grams

[^]Response time of transmitter only

Input

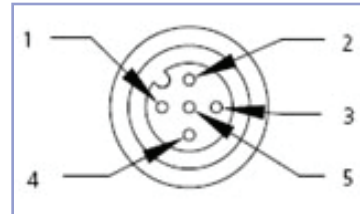
Range	0-70°C (32°F to 158°F)
Burnout Signal	Upscale 22 mA
Sensor Lead Length	<10 ft (to maintain CE)
Sample Rate	500 mS per reading
Accuracy	±0.14°C (±0.252°F)
Thermal Drift	Zero ±0.01°C/°C (±0.018°F/°F); Span 50 ppm
Connection	1/4 inch headphone receptacle

Output

Output	4 to 20 mA, (spans to temperature range of 0-70°C (32°F to 158°F))
Maximum Output Range	3.8 to 22 mA
Accuracy*	± 5 µA
Thermal Drift	± 2 µA/°C

* Total system accuracy is transmitter + sensor accuracy

	PDKT-TT1	PDKT-TT4
1 (Brown)	T1mA (+)	T1mA (+)
2 (White)	GND	T2mA (+)
3 (Blue)	N/A	T3mA (+)
4 (Black)	N/A	T4mA (+)
5 (Gray)	N/A	GND



Ordering Information

Order Number

Pendotech Temperature Sensor Benchtop Transmitter with 4-20 mA output in ABS plastic box with 24 VDC wall supply	PDKT-TT1
Pendotech Temperature Sensor Benchtop Transmitter with 4-20 mA output in ABS plastic box with 24 VDC wall supply (for 4 sensors)	PDKT-TT4
3.0 m reusable temperature sensor cable with 1/4 phone jack for barb sensors	PDKT-650-TEMPB
7 ft reusable temperature sensor cable with 1/4 phone jack term. for luer sensors	PDKT-650-TEMPL