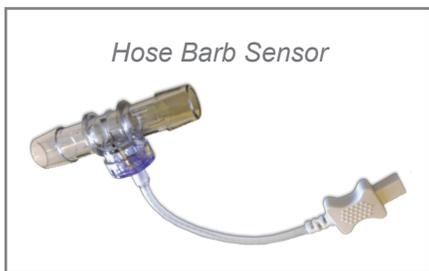




PendoTECH® Temperature Sensor Benchtop Transmitter™

Background

The PendoTECH Temperature Sensor Benchtop Transmitter connects to the PendoTECH Temperature sensor and produces a 4-20 milliamp signal that is linear with temperature. It is available in 1-, 2- and 4-channel models. The transmitter has a rugged ABS plastic enclosure and an LED front panel power indicator. Electrical connections are located on the back panel. Digital technology and the narrow 4-20mA output range from 0 to 70°C ensures accurate and drift free linearization of the sensor output.



Hose Barb Sensor



Luer Sensor

Transmitter Details

Connections to the unit are quick and convenient.

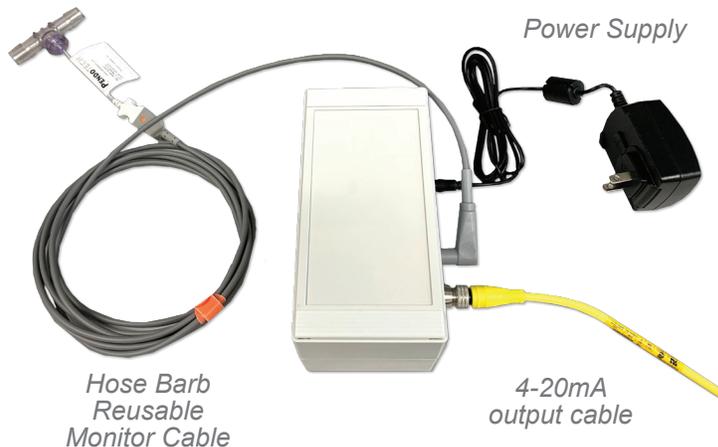
It is powered by a 24VDC wall supply that has universal voltage input (100-250VAC). The reusable temperature sensor cable plugs into the back of the unit. The 4-20mA output may be interfaced to PendoTECH products by the included interface cable. To maintain CE compliance, input wires must be less than 10ft. in length which is the maximum length of the PendoTECH reusable monitor cables. Additional wire length also adds additional resistance which can impact accuracy so extensions are not recommended.



Hose Barb Re-usable Monitor Cable



Luer Re-usable Monitor Cable



Power Supply

Hose Barb Reusable Monitor Cable

4-20mA output cable



Specifications

Enclosure	ABS Plastic with rubber feet
Operating Voltage	24VDC
Response Time [^]	500mS to reach 70% of final value
Max Loop Resistance	800ohms
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
Ambient Storage	-40 to 80°C
Ambient Humidity	0 to 95% (Non condensing)
Dimension	6.25inch (w) x 3.125inch (h) x 3.063inch (l)
Weight	370grams

[^]Response time of transmitter only

Input

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

Output

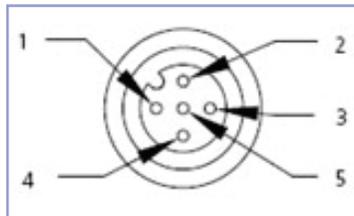
Output	4 to 20 mA, (spans to temperature range of 0-70°C)
Maximum Output Range	3.8 to 22mA
Accuracy*	± 5µA
Thermal Drift	± 2µA/°C

* Total system accuracy is transmitter + sensor accuracy

Ordering Information

PDKT-TT1	PendoTECH Temperature Sensor Benchtop Transmitter with 4-20mA output in ABS plastic box with 24VDC wall supply
PDKT-TT2	PendoTECH Temperature Sensor Benchtop Transmitter with 4-20mA output in ABS plastic box with 24VDC wall supply (for 2 sensors)
PDKT-TT4	PendoTECH Temperature Sensor Benchtop Transmitter with 4-20mA output in ABS plastic box with 24VDC wall supply (for 4 sensors)
PDKT-650-TEMPB	3.0m Re-usable Temperature Sensor Cable with 1/4 phone Jack for Barb Sensors
PDKT-650-TEMPL	7ft Re-usable Temperature Sensor Cable with 1/4 phone Jack Term. for Luer Sensors

Output Receptacle Schematic



	PDKT-TT1	PDKT-TT2	PDKT-TT4
1 (Brown)	T1mA (+)	T1mA (+)	T1mA (+)
2 (White)	GND	GND	T2mA (+)
3 (Blue)	N/A	T2mA (+)	T3mA (+)
4 (Black)	N/A	GND	T4mA (+)
5 (Gray)	N/A	N/A	GND

Unit Shown with Interface Cable to PendoTECH Control System

