

Head Mount Temperature Transmitter

TxBLOCK-USB



CE RoHS



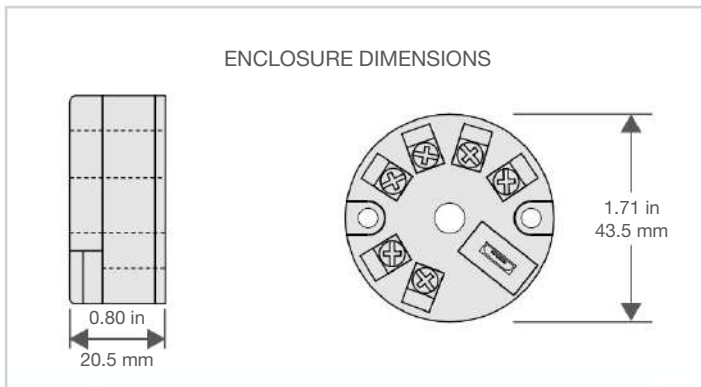
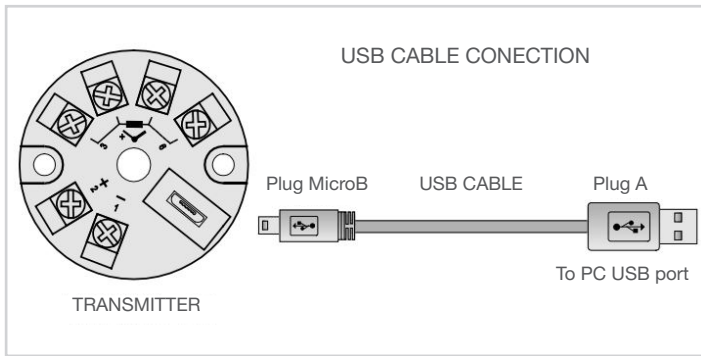
- ✓ Sensor type **flexibility**
- ✓ Easy **USB configuration**
- ✓ Excellent **robustness** against interferences
- ✓ Fully **rangeable**
- ✓ Field **calibration** fine tuning

TxBLOCK-USB is an excellent and powerful high-accuracy loop-powered head mounted temperature transmitter. It accepts several types of sensors – thermocouples, Pt100, Pt1000, NTC and 0-50 mV signal – all-in-one model, with linearized 4-20 mA output and configurable measurement range. It allows 2 points calibration for field tuning and can be supplied also with accredited calibration certificate according to

ILAC recognition, and additionally can be supplied already preconfigured with customer parameters. As a world class device, TxBLOCK-USB is compliant with the leading standards of electromagnetic compatibility, and is highly immune and reliable device for industrial environment.

The innovative built-in USB port allows configuration, easy commissioning and fine tuning on periodic calibration reviews.





Sensor Input	Sensor Type		Measurement Range	
	Thermocouple K		-150 to 1370 °C	(-238 to 2498 °F)
	Thermocouple J		-100 to 760 °C	(-148 to 1400 °F)
	Thermocouple R		-50 to 1760 °C	(-58 to 3200 °F)
	Thermocouple S		-50 to 1760 °C	(-58 to 3200 °F)
	Thermocouple T		-160 to 400 °C	(-256 to 752 °F)
	Thermocouple N		-270 to 1300 °C	(-454 to 2372 °F)
	Thermocouple E		-90 to 720 °C	(-130 to 1328 °F)
	Thermocouple B		500 to 1820 °C	(932 to 3308 °F)
	Pt100 (2-wire, 3-wire and 4-wire)		-200 to 650 °C	(-328 to 1202 °F)
Pt100 (3-wire)		-200 to 650 °C	(-328 to 1202 °F)	
NTC (2-wire)		-30 to 120 °C	(-22 to 248 °F)	
	0-50 mV		0 to 50 mV	
Temperature Unit	°C or °F, software selectable			
Accuracy	Sensor Type		Typical	Minimum
	Pt100 / Pt1000 (-150 to 400 °C) or (-238 to 752 °F)		0.10%	0.12%
	Pt100 / Pt1000 (Full Range)		0.13%	0.19%
	Tc K, J, T, E, N, R, S, B		0.1% ±1 °C (±1.8 °F)	0.15% ±1 °C (±1 °F)
	mV		0.1%	0.15%
NTC		0.3%	0.7%	
Measurement Compensation	Cold junction compensation			
	Thermocouple	Cable compensation for 2-wire, 3-wire and 4-wire		
	Pt1000	Cable compensation for 2-wire and 3-wire		
Output	Output Signal		Linearized 4-20 or 20-4 mA current, 2 wire	
	Resolution		2 µA	
Temperature Effect	±0.16% / 25 °C (77 °F)			
Response Time	Typical 1.6 sec			
Power Supply	10 to 35 Vdc			
Operating Conditions	Temperature		-40 to 85 °C (-40 to 185 °F)	
	Humidity		0 to 90% RH	
Approvals / Standards	CE NAMUR NE43 compliant RoHS compliant EN 61326-1: 2006 conformity			
Protection	Internal protection against reverse polarity			
Isolation	No electrical isolation between input and output			
Dimensions	43.5 mm (diameter) x 20.5 mm (height) 1.71 in (diameter) x 0.80 in (height)			
Wire Cross Section	0.14 to 1.5 mm ² (26 AWG to 15 AWG)			
Housing Material	ABS UL94-HB (standard impact strength, flaming resistance and antistatic)			
Mounting	DIN form B sensor head			
Interface Communication	USB micro-B type, with silicon cover protection			
Configuration	TxConfig II for Windows PCs TxConfig for Android smartphones		Available on www.novus.com.br/downloads Available on Google Play	