



Head Mounted Temperature Transmitter



TxBLOCK-USB

- Compatible with all main sensor types
- Fast commissioning
- Adjustable temperature range
- Great robustness against interference



**FULLY
CONFIGURABLE**



**PC AND MOBILE
CONFIGURATOR
SOFTWARE**



**CALIBRATION
ADJUSTMENT
VIA USB**



**SENSOR
FAILURE
INDICATION**



**RELIABLE IN
INDUSTRIAL
ENVIRONMENTS**

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

For pricing or any further information, please contact Omni Instruments Ltd.



Measurement and data acquisition solutions

Contact Details:

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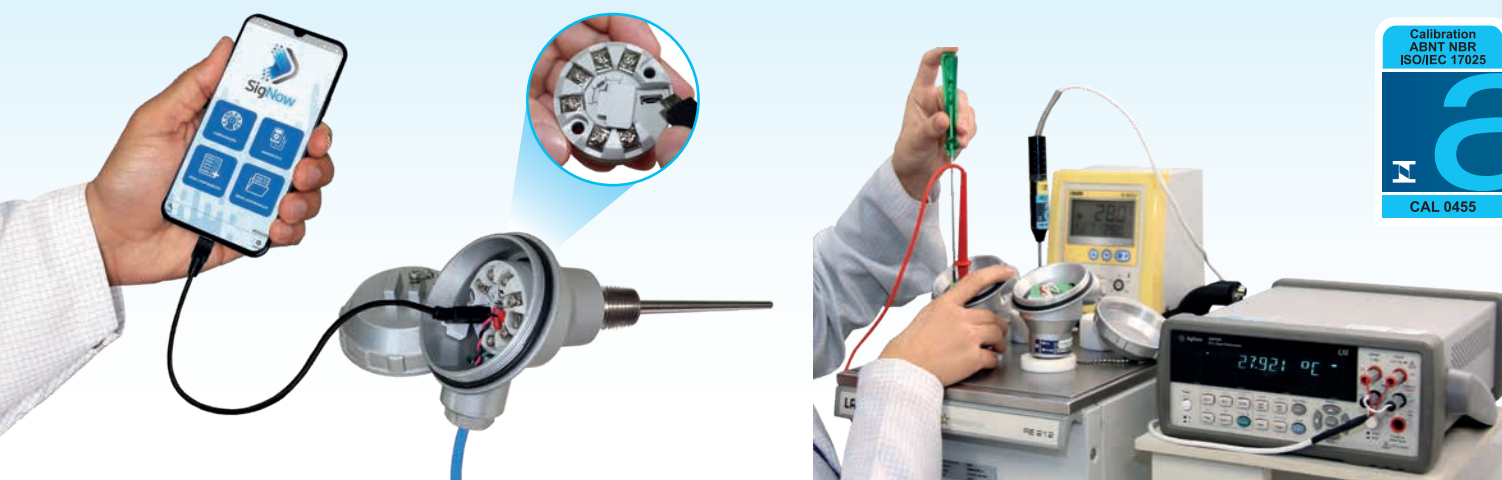
Mailing Address: Unit 1, 14 Nobel Road,

Wester Gourdie Industrial Estate,

Dundee, DD2 4UH.

Accredited Calibration

TxBLOCK-USB can be provided with accredited certificate of calibration from factory. The customer takes the advantage of a ready-to-use device with very low uncertainty on the accuracy. The certificate is ILAC recognized, giving to customer assurance of international laboratory accreditation.



Technical Specifications

Sensor Input	Sensor Type	Measurement Range	
	Thermocouple K Thermocouple J Thermocouple R Thermocouple S Thermocouple T Thermocouple N Thermocouple E Thermocouple B Pt100 (2-wire, 3-wire and 4-wire) Pt1000 (3-wire) NTC (2-wire)	-150 to 1370 °C -100 to 760 °C -50 to 1760 °C -50 to 1760 °C -160 to 400 °C -270 to 1300 °C -90 to 720 °C 500 to 1820 °C -200 to 650 °C -200 to 650 °C -30 to 120 °C	(-238 to 2498 °F) (-148 to 1400 °F) (-58 to 3200 °F) (-58 to 3200 °F) (-256 to 752 °F) (-454 to 2372 °F) (-130 to 1328 °F) (932 to 3308 °F) (-328 to 1202 °F) (-328 to 1202 °F) (-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) Pt100 / Pt1000 (Full Range) Tc K, J, T, E, N, R, S, B mV NTC	0.10% 0.13% 0.1% ±1 °C (±1.8 °F) 0.1% 0.3%	0.12% 0.19% 0.15% ±1 °C (±1 °F) 0.15% 0.7%
Measurement Compensation	Thermocouple: Cold junction compensation Pt100: 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 mm² (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	SigNow for Windows: Available on www.novusautomation.com/en/signow SigNow for Android: Available on Google Play		

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