

IN-HEAD FIELDBUS OR PROFIBUS TRANSMITTER

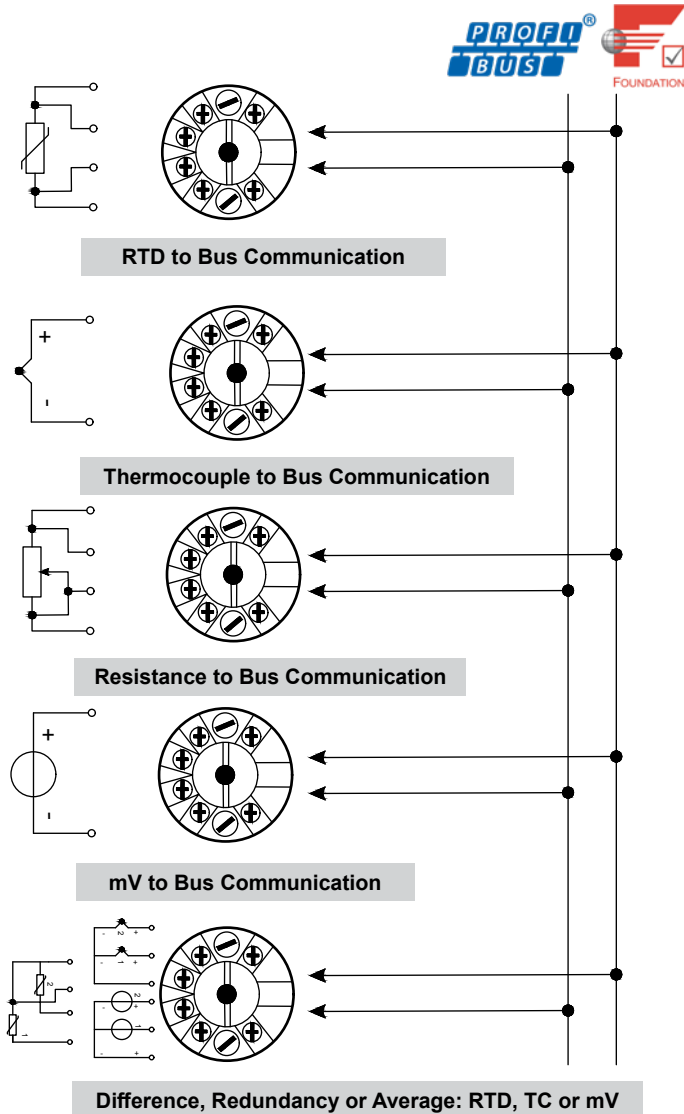


TCX-5350B

ORDER YOUR TRANSMITTER:
Use the part number:
TCX-5350B

FEATURES / BENEFITS

- PROFIBUS PA ver. 3.0
- FOUNDATION Fieldbus ver. ITK 4.6
- Automatic switch between protocols
- FISCO-certified
- Basic or LAS capability with F.F.



TRANSMITTERS

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SPECIFICATIONS

Environmental Conditions	
Operating Temperature	-40°C to +85°C
Calibration Temperature	20°C to 28°C
Relative humidity	< 95% RH (non-condensing)
Protection degree (enclosure/terminal)	IP68 / IP00
Mechanical Specifications	
Dimensions	Ø 44 x 20.2 mm
Weight approx.	55 g
Screw terminal torque	0.4 Nm
Vibration	DIN class B, IEC 60068-2-6 and IEC 60068-2-64
2...25 Hz	±1.6 mm
25...100 Hz	±4 g
Common Specifications	
Supply voltage	9.0...30 VDC
Supply voltage in FISCO installations	9.0...17.5 VDC
Isolation voltage, test / working	1.5 kVAC for 60 s
Isolation voltage, Working voltage	50 VRMS / 75 VDC
Response time (programmable)	1...60 s
Quiescent current	< 11 mA
Max current increase in the event of an error	< 7 mA
Warm-up time	30 s
Signal / noise ratio	Min. 60 dB
Updating time	< 400 ms
Execution time, analog input	< 50 ms
Accuracy	Better than 0.05% of selected range
Signal dynamics, input	24 bit
EMC immunity influence	< ±0.1% of span
Extended EMC immunity: NAMUR NE21, A criterion, burst	< ±1% of span

Input Specifications	
RTD type	Pt25... 1000; Ni25... 1000, Cu10... 1000, lin. R, potentiometer
Cable resistance per wire	50 Ω max.
Sensor current	Nom. 0.2 mA
Effect of sensor cable resistance (3-/4-wire)	< 0.002 Ω / Ω
Sensor error detection	Yes
Short circuit detection	< 15 Ω
TC input types	B, E, J, K, L, N, R, S, T, U, W3, W5
Cold junction compensation	< ±0.5°C
Sensor error detection	Yes
Sensor error current: When detecting / else	Nom. 4 µA / 0 µA
Short circuit detection	< 3 mV
Voltage input measurement range	-800...+800 mV
Input resistance	10 MΩ
Output Specifications	
PROFIBUS PA protocol	Profile A&B, ver. 3.0
protocol standard	EN 50170 vol. 2
address (at delivery)	126
function blocks	2 analog
FOUNDATION Fieldbus protocol	FF protocol
standard	FF design specifications
version	ITK 4.6
capability	Basic or LAS
function blocks	2 analog and 1 PID
Observed Authority Requirements	
EMC	2014/30/EU
RoHS	2011/65/EU
EAC	TR-CU 020/2011
Approvals	
ATEX 2014/34/EU	KEMA 02ATEX1318 X
IECEX	BVS 12.0035X
FM	3015609
CSA	1418937
INMETRO	DEKRA 18.0006 X
NEPSI	GYJ14.1101X
EAC Ex TR-CU 012/2011	RU C-DK.GB08.V.00410