

HART 7 4-20mA IN-HEAD TRANSMITTER

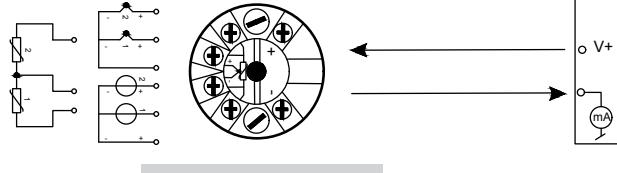
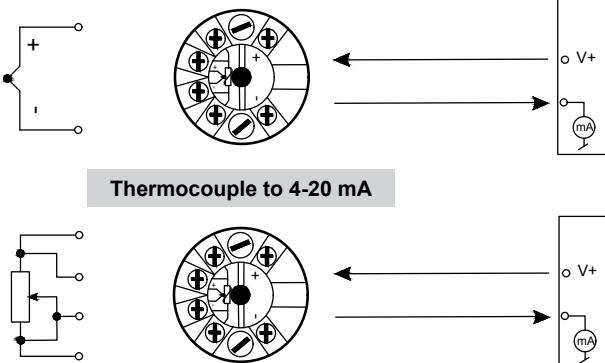
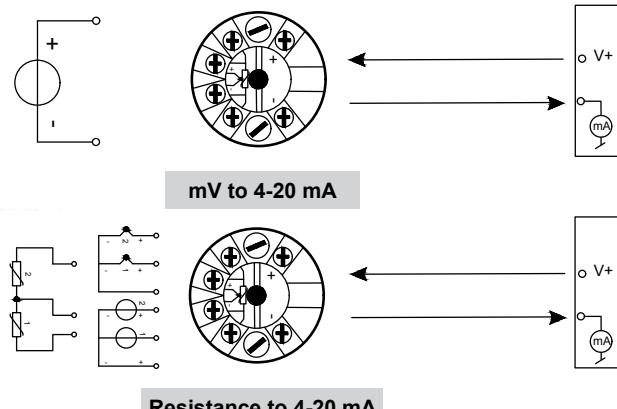
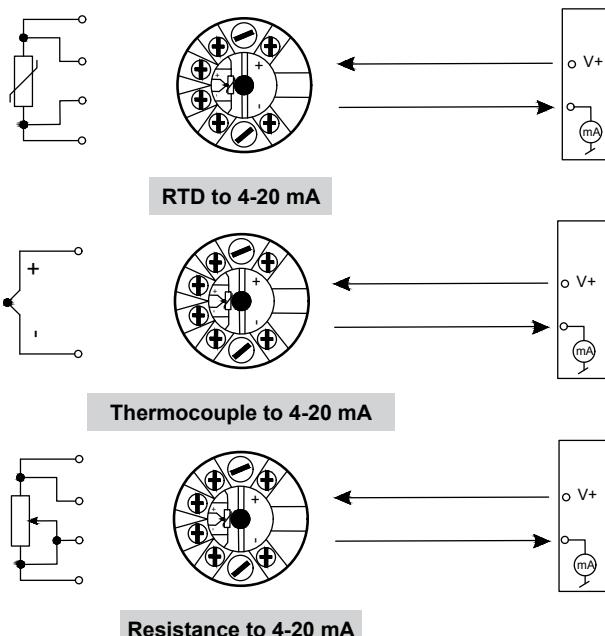


TCX-5337D

FEATURES / BENEFITS

- RTD, TC, Ohm, and bipolar mV input
- 2 analog inputs and 5 device variables with status available
- HART protocol revision selectable from HART 5 or HART 7
- Hardware assessed for use in SIL applications
- Mounting in hazardous gas and dust area

ORDER YOUR TRANSMITTER: Use the part number: **TCX-5337D**



HART 7 4-20mA IN-HEAD TRANSMITTER

SPECIFICATIONS

Environmental Conditions		Input Specifications	
Operating Temperature	-40°C to +85°C	Max. offset	50% of selected max. value
Calibration Temperature	20°C to 28°C	RTD type	Pt50/100/200/500/1000; Ni50/100/120/1000
Relative humidity	< 95% RH (non-condensing)	Cable resistance per wire	5 Ω max. (up to 50 Ω per wire is possible with reduced measurement accuracy)
Protection degree (enclosure/terminal)	IP68 / IP00	Sensor current	Nom. 0.2 mA
Mechanical Specifications		TC input types	B, E, J, K, L, N, R, S, T, U, W3, W5, LR
Dimensions	Ø 44 x 20.2 mm	Cold junction compensation	Constant, internal or external via a Pt100 or Ni100 sensor
Weight approx.	50 g	Sensor error detection	Yes
Wire size	1 x 1.5 mm ² / stranded wire	Voltage input measurement range	-800...+800 mV
Screw terminal torque	0.4 Nm	Min. measurement range (span)	2.5 mV
Vibration	IEC 60068-2-6	Input resistance	10 MΩ
2...25 Hz	±1.6 mm	Output Specifications	
25...100 Hz	±4 g	Signal range	4...20 mA
Common Specifications		Min. signal range	16 mA
Supply voltage	8.0...30 VDC	Load (@ current output)	≤ (V _{supply} - 8) / 0.023 [Ω]
Isolation voltage, test / working	1.5 kVAC / 50 VAC	Sensor error indication	Programmable 3.5...23 mA
Response time (programmable)	1...60 s	NAMUR NE43 Upscale/Downscale	23 mA / 3.5 mA
Voltage drop	8.0 VDC	Updating time	440 ms
Programming	Loop Link & HART	HART protocol revisions	HART 7 and HART 5
Signal / noise ratio	> 60 dB	Observed Authority Requirements	
Accuracy	Better than 0.05% of selected range	EMC	2014/30/EU
Signal dynamics, input	22 bit	EAC	TR-CU 020/2011
Signal dynamics, output	16 bit	Approvals	
EMC immunity influence	< ±0.1% of span	ATEX 2014/34/EU	KEMA 03ATEX1537
Extended EMC immunity: NAMUR NE21, A criterion, burst	< ±1% of span	IECEX	KEM 10.0083X
		FM	FM17US0013X
		CSA	1125003
		INMETRO	DEKRA 18.0002X
		EAC Ex TR-CU 012/2011	RU C-DK.GB08.V.00410
		SIL	Hardware assessed for use in SIL applications
		DNV-GL Marine	Stand. f. Certific. No. 2.4