

2-wire HART® transmitter

6337D

- 1- or 2-channel converter for RTD, TC, Ohm, and bipolar mV signals
- 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 on a DIN rail in hazardous gas and dust area













Application

- · Linearized temperature measurement with TC and RTD sensors e.g. Pt100 and Ni100.
- HART® communication and 4...20 mA analog PV output for individual, difference or average temperature measurement of up to two RTD or TC input sensors.
- · Conversion of linear resistance to a standard analog current signal, e.g from valves or Ohmic level sensors.
- · Amplification of bipolar mV signals to standard 4...20 mA
- Up to 63 transmitters (HART® 7) can be connected in a multidrop communication setup.

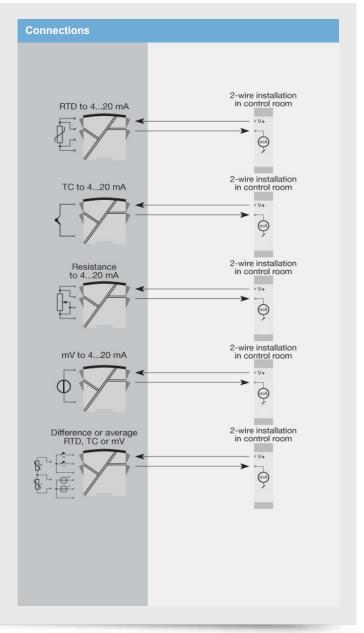
Technical characteristics

- HART[®] protocol revision can be changed by user
- configuration to either HART® 5 or HART® 7 protocol.

 The HART® 7 protocol offers: · Long Tag numbers of up to 32 characters. Enhanced Burst Mode and Event notification with time stamping. Device variable and status mapping to any dynamic variable PV, SV, TV or QV. Process signal trend measurement with logs and summary data. Automatic event notification with time stamps. Command aggregation for higher communication efficiency.
- 6337D is designed according to strict safety requirements and is therefore suitable for applications in SIL installations.
- Continuous check of vital stored data.
- Meeting the NAMUR NE 21 recommendations, the 6337D HART® transmitter ensures top measurement performance in harsh EMC environments. Additionally, the 6337D meets NAMUR NE43 and NE89 recommendations.

Mounting / installation

- DIN rail mounting with up to 84 channels per meter.
- Configuration via standard HART® communication interfaces or by PR 5909 Loop Link.



Order:

Туре	Galvanic isolation		Channels	
6337D	1500 VAC	: 2	Single Double	: A : B

^{*}NB! Please remember to order CJC connectors type 5910Ex (channel 1) and 5913Ex (channel 2) for TC inputs with an internal CJC.

Environmental Conditions

Specifications range	-40°C to +60°C
Storage temperature	-40°C to +85°C
Calibration temperature	2028°C
Relative humidity	< 95% RH (non-cond.)
Protection degree	IP20

Mechanical specifications

Dimensions (HxWxD)	109 x 23.5 x 104 mm
Weight (1 / 2 channels)	150 / 200 g
DIN rail typeWire size	DIN EN 60715/35 mm
Wire size	0.132.08 mm ² AWG 2614
	stranded wire
Screw terminal torque	0.5 Nm

Common specifications

Supply voltageVoltage drop	
Isolation voltage, test / working	1.5 kVAC / 50 VAC
Isolation voltage, ch. 1 / ch. 2	
Communications interfaceAccuracy	Better than 0.05% of selected
Signal / noise ratio	
Response time (programmable) EMC immunity influence	
Extended EMC immunity: NAMUR NE 21, A criterion, burst	< ±1% of span

Input specifications	
Max. offset	
RTD input	Pt50, Pt100, Pt200, Pt500, Pt1000, Ni50, Ni100, Ni120, Ni1000
Cable resistance per wire	
(max.), RTD	b Ω (up to 50 Ω per wire is possible with reduced measurement accuracy)
Sensor current, RTD	Nom. 0.2 mA
TC input: Thermocouple type	B, E, J, K, L, N, R, S, T, U, W3, W5
Cold junction compensation	
(CJC)	
	via a Pt100 or Ni100 sensor
Voltage input: Measurement range	-800 +800 mV
Min. measurement range (span),	000 000 1114
voltage input	2.5 mV
Input resistance, voltage	
input	10 ΜΩ

Output specifications

Current output: Signal range	420 mA
Min. signal range	16 mA
Updating time	440 ms
Load resistance, current output	≤ (Vsupply - 8) / $0.023 [\Omega]$
Sensor error indication, current	
output	Programmable 3.523 mA
NAMUR NE 43 Upscale/Downscale	23 mA / 3.5 mA
HART protocol revisions	HART 5 and HART 7

Approvals

EMC	EN 61326-1
ATEX 2004/108/EC	KEMA 09ATEX0148
IECEx	DEK 11.0084X
FM	2D5A7
CSA	1125003
EAC TR-CU 020/2011	EN 61326-1
EAC Ex TR-CU 012/2011	RU C-DK.GB08.V.00410
SIL	Hardware assessed for use in
	SIL applications