

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

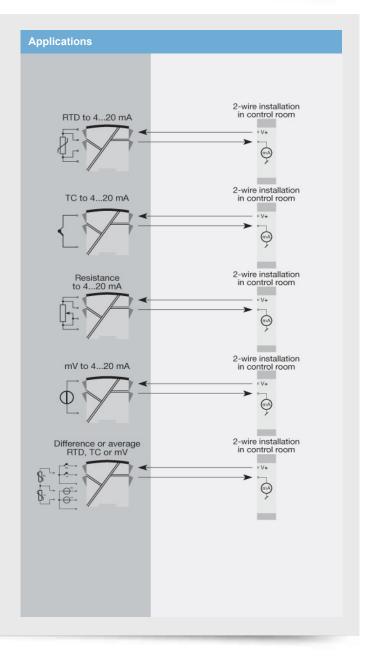
- · Linearized temperature measurement with TC and RTD sensors e.g. Pt100 and Ni100.
- · HART communication and 4...20 mA analog PV output for individual, difference or average temperature measurement of up to two RTD or TC input sensors.
- · Conversion of linear resistance to a standard analog current signal, e.g from valves or Ohmic level sensors.
- · Amplification of bipolar mV signals to standard 4...20 mA current
- 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.
- The 6337D can be mounted in zone 0, 1, 2 and zone 21, 22 including M1 / Class I/II/ III, Division 1, Groups A, B, C, D.



Order

Туре	Version		Galvani isolatio		Channel	Is
6337	Zone 0, 1, 2, 21, 22, M1 / DIV. 1, DIV. 2	: D	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	
Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C
Calibration temperature	
Relative humidity	
Protection degree	•
Protection degree	IF20
Mechanical specifications	
Dimensions (HxWxD)	109 x 23.5 x 104 mm
Weight (1 / 2 channels)	
DIN rail type	
Wire size	0.13 2.08 mm ² AWG 26 14
Wile Size	stranded wire
Screw terminal torque	
·	0.0 14111
Common specifications	
Supply	
Supply voltage	8.030 VDC
Internal power dissipation,	
1 / 2 ch	19 mW0.7 / 1.4 W
Isolation voltage	
Isolation voltage, test /	
working	1.5 kVAC / 50 VAC
Response time	
Response time (programmable)	1 60 0
Voltage drop	
Programming	
Accuracy	
	range
Signal dynamics, input	
Signal dynamics, output	
Signal / noise ratio	> 60 dB
EMC immunity influence	< ±0.1% of span
Extended EMC immunity: NAMUR	
NE21, A criterion, burst	< ±1% of span
Input specifications	
Common input specifications	F00/ -f t - d
Max. offset	50% of selected max. value
RTD input	
RTD type	
	Ni50/100/120/1000
Cable resistance per wire	5Ω (up to 50Ω per wire is
	possible with reduced measurement accuracy)
Concer current	• * *
Sensor current	Nom. U.2 mA
Linear resistance input	
Linear resistance minmax	0 Ω7000 Ω
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)	
Input resistance	
•	

Output specifications

Current output	
Signal range	420 mA
Min. signal range	16 mA
Load (@ current output)	\leq (Vsupply - 8) / 0.023 [Ω]
Sensor error indication	Programmable 3.523 mA
NAMUR NE43 Upscale/Downscale	23 mA / 3.5 mA
Common output specifications	
Updating time	440 ms
HART protocol revisions	HART 7 and HART 5

Observed authority requirements

EMC	2014/30/EU & UK SI 2016/1091
ATEX	2014/34/EU & UK SI 2016/1107
RoHS	2011/65/EU & UK SI 2012/3032
EAC	TR-CU 020/2011
EAC Ex	TR-CII 012/2011

Approvals	
ATEX	DEKRA 20ATEX0108X
IECEx	DEK 20.0063X
CSA	1125003
FM	FM17US0013X
EAC Ex	RU C-DK.HA65.B.00355/19
SIL	Hardware assessed for use in
	SIL applications