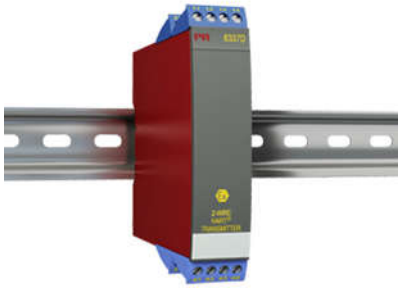
PERFORMANCE MADE SMARTER



2-wire HART transmitter

6337D

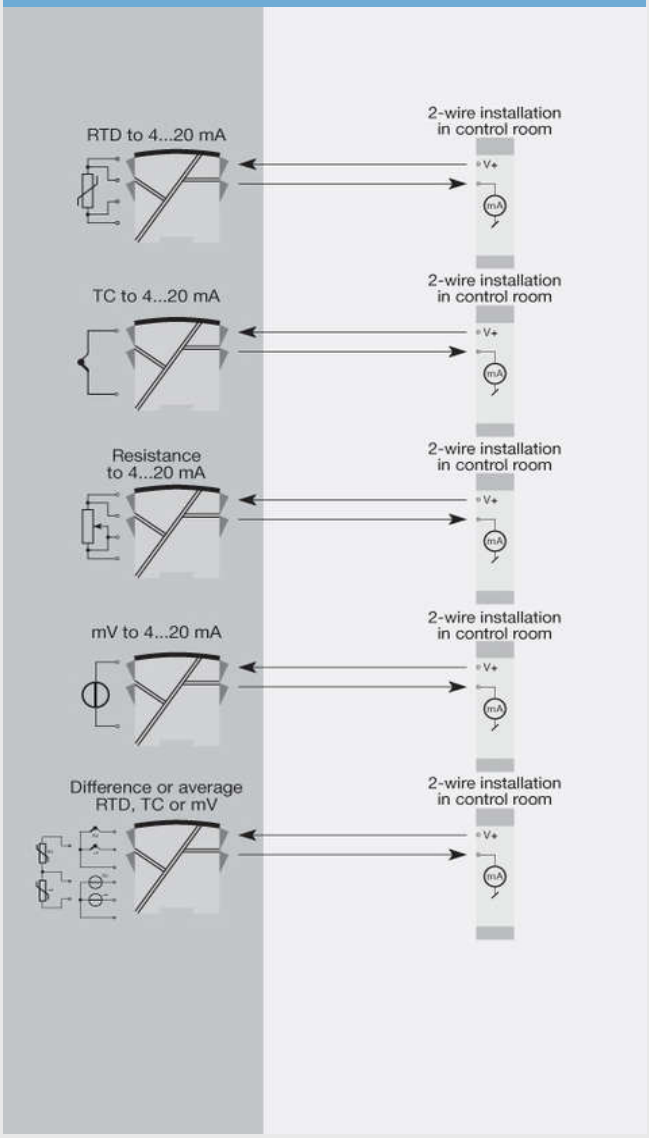
– 1- or 2-channel converter for RTD, TC, Ohm, and bipolar mV signals
– 2 analog inputs and 5 device variables with status available
– HART protocol revision selectable from HART 5 or HART 7
– Hardware assessed for use in SIL applications
– Mounting on a DIN rail in hazardous gas and dust area

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 signals.
- 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.

Applications



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Order:

Type	Galvanic isolation	Channels
6337D	1500 VAC : 2	Single : A Double : 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..... 20...28°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 type..... DIN EN 60715/35 mm
Wire size..... 0.13...2.08 mm^2 AWG 26...14 stranded wire
Screw terminal torque..... 0.5 Nm

Common specifications

Supply
Supply voltage..... 8.0...30 VDC

Isolation voltage
Isolation voltage, test / working..... 1.5 kVAC / 50 VAC

Response time
Response time (programmable)..... 1...60 s

Voltage drop..... 8.0 VDC
Programming..... Loop Link & HART®
Accuracy..... Better than 0.05% of selected range
Signal / noise ratio..... > 60 dB
EMC immunity influence..... < ±0.1% of span
Extended EMC immunity: NAMUR NE 21, A criterion, burst..... < ±1% of span

Input specifications

Common input specifications
Max. offset..... 50% of selected max. value

RTD input
RTD type..... Pt50/100/200/500/1000; Ni50/100/120/1000
Cable resistance per wire (max.)..... 5 Ω (up to 50 Ω per wire is possible with reduced measurement accuracy)
Sensor current..... Nom. 0.2 mA

Linear resistance input
Linear resistance min....max..... 0 Ω...7000 Ω

TC input
Thermocouple type..... B, E, J, K, L, N, R, S, T, U, W3, W5
Cold junction compensation (CJC)..... Constant, internal or external via a Pt100 or Ni100 sensor

Voltage input
Measurement range..... -800...+800 mV
Min. measurement range (span)..... 2.5 mV
Input resistance..... 10 MΩ

Output specifications

Current output
Signal range..... 4…20 mA
Min. signal range..... 16 mA
Load (@ current output)..... ≤ (Vsupply - 8) / 0.023 [Ω]
Sensor error indication..... Programmable 3.5…23 mA
NAMUR NE 43 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

Approvals

ATEX 2014/34/EU..... KEMA 09ATEX0148
IECEx..... DEK 11.0084X
FM..... FM17US0013X
CSA..... 1125003
EAC Ex TR-CU 012/2011..... RU C-DK.GB08.V.00410
SIL..... Hardware assessed for use in SIL applications