

## 2-wire HART transmitter

### 6337A

- 1- or 2-channel converter for RTD, TC, Ohm, and bipolar mV signals
- 2 analogue 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 Safe Area or Zone 2/22



#### 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.

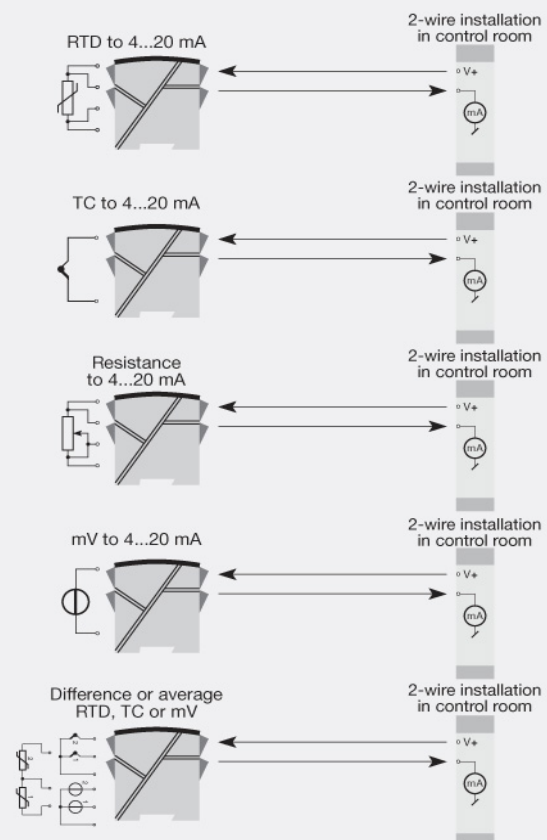
#### Technical characteristics

- 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.
- 6337A 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 NE21 recommendations, the 6337A HART transmitter ensures top measurement performance in harsh EMC environments. Additionally, the 6337A 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



**Order:**

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

\*NB! Please remember to order CJC connectors type 5910 (channel 1) and 5913 (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 <sup>2</sup> AWG 26...14 stranded wire
Screw terminal torque.....	0.5 Nm

**Common specifications****Supply**

Supply voltage.....	8.0...35 VDC
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**Isolation voltage**

Isolation voltage, test / working.....	1.5 kVAC / 50 VAC
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**Response time**

Response time (programmable).....	1...60 s
Voltage drop.....	8.0 VDC
Signal / noise ratio.....	> 60 dB
Accuracy.....	Better than 0.05% of selected range
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
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**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
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**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 5 and HART 7

**Observed authority requirements**

EMC.....	2014/30/EU
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**Approvals**

EAC.....	TR-CU 020/2011
ATEX 2014/34/EU.....	KEMA 10ATEX0006 X
IECEx.....	KEM 10.0084X
SIL.....	Hardware assessed for use in SIL applications