



2-wire HART 7 temperature transmitter

6437A

- RTD, TC, potentiometer, linear resistance and bipolar mV input
- Single input, dual input or 2 channels (2x4 terminals)
- Wide ambient operating temperature of -50 to +85°C
- Total accuracy from 0.014%
- -2.5 kVAC galvanic isolation
- Full assessment to IEC61508: 2010 for use in SIL 2/3 applications























Application

- · Temperature measurement of a wide range of TC and RTD types.
- Conversion of wide span linear resistance and potentiometer inputs to 4...20 mA
- · Conversion of bipolar mV signals to 4...20 mA.
- · Integration into asset management schemes.
- · Critical applications requiring superior accuracy and/or sensor redundancy and drift detection.

Technical characteristics

- True dual input transmitter, accepts the widest range of dual input combinations.
- · Sensor redundancy output automatically switches to secondary sensor in event of primary sensor failure, maintaining uptime.
- · Sensor drift detection alerts when sensor differential exceeds user-defined limits, for maintenance optimization.
- Dynamic variable mapping for process data in addition to the primary variable e.g. dual input features such as average, differential and min./max. tracking.
- · Groundbreaking digital and analog signal accuracy over full input span and ambient conditions.
- · Extensive sensor matching including Callendar Van Dusen and custom linearizations.
- Programmable input limits with runtime metering ensure maximum process traceability and sensor out of range protection.
- IEC 61508 : 2010 full assessment up to SIL 3 together with enhanced EMC Functional Safety testing to IEC 61236-3-1.
- Meets NAMUR NE21, NE43, NE44, NE89 and NE107 compliant diagnostics information.

Mounting / installation / programming

- DIN rail mounting with up to 84 inputs per meter.
- · Configuration via PReset using PR5909 Loop Link /HART modem, or by Asset Management tool (e.g. Pactware, AMS, HART communicator) for which all relevant DD, eDD and DTM files are available
- The 6437A can be mounted in zone 2 and zone 22 / Class I, Division 2, Groups A, B, C, D.

Applications Dual input Output Input 2 x 2/3/4 w RTD 2 x TC (2/3/4 w ext. CJC) 2 xTC (Int. CJC) 4...20 mA TC (Int. CJC) + 2/3/4 w RTD (Advanced functions) TC (2/3 w ext. CJC) + 2/3/4 w RTD 2 x 2/3/4 w IIn. R 2 x 3/4 w Pot 5 w Pot + 3 w Pot 2 x mV unipolar 2 x mV blpolar Single input 2/3/4 w RTD 4...20 mA TC (2/3 w. ext. CJC) TC (Int. CJC) 2/3/4 w IIn. R 3/4 w Pot mV unipolar mV blpolar 2 channels Channel 1 Ch. 1 2/3/4 w RTD ➤ Ch. 1, 4...20 mA Ch. 2 TC (2/3 w. ext. CJC) Ch. 2, 4...20 mA TC (Int. CJC) 2/3/4 w IIn. R 3/4 w Pot mV unipolar mV blpolar Channel 2 2/3/4 w RTD TC (2/3 w. ext. CJC) TC (Int. CJC) 2/3/4 w IIn. R 3/4 w Pot mV unipolar

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