



## True dual sensor input



### Application

- Temperature measurement of a wide range of TC and RTD types.
- Conversion of wide span linear resistance and potentiometer inputs.
- 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. High density 7-terminal design 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 certification 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**

- For DIN form B sensor head mounting.
- Configuration via standard HART communication interfaces or by PR 5909 Loop Link.
- The 5437D can be mounted in zone 0, 1, 2 and zone 20, 21, 22 including M1 / Class I, Division 1, Groups A, B, C, D.

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