

The T142 programmable HART® field temperature transmitter is a 2-wire unit with analog output. It includes input for RTDs; resistance inputs in 2-wire, 3-wire, and 4-wire connections; thermocouples and voltage signals. The transmitter can be supplied with or without a digital display, in either a general-purpose aluminum housing, or explosion-proof aluminum housing. The T142 can be programmed with a PC, a HART® protocol handheld terminal, or with Bluetooth® option. When supplied with a digital display, the LC screen shows the current measured value and a bar graph with limit value violation indicator.

PROGRAMMABLE FIELD TEMPERATURE TRANSMITTER

Programmable temperature transmitter for resistance thermometers (RTDs), thermocouples, resistance inputs and voltage inputs:
adjustable via HART® protocol.



Features and Benefits

- PC programmable temperature transmitter for converting various input signals into a scalable (4 to 20) mA analog output signal
- Universal settings for Input types:
 - Resistance thermometer (RTD)
 - Thermocouple (TC)
 - Resistance (Ω)
 - Voltage (mV)
- HART® protocol for operating the device on site with handheld communicator or remotely via a PC
- Optional Display with direct mount or remote mount housing
- Optional Bluetooth® configuration
- HART® 7 protocol
- **CE** Marked meets EMC and ROHS Directive (RED with Bluetooth®)
- **CSA** For use in ordinary locations for US and Canada meets 61010-1
- Galvanic isolation
- **CS** - Intrinsically safe for hazardous locations
 - Ex ia IIC T6...T4Ga
 - Class I, Zone 0, AEx ia IIC T6...T4Ga
 - Ex/AEx ia IIC Ga and Ni/NIFW
 - Class I, Division 2, Groups A,B,C,D; T6...T4 (Non Incendive Field Wiring (NIFW))
- **CS** - Explosion-proof for hazardous locations
 - Class I, Division 1, Groups A,B,C,D; T6...T4
 - Class II, Division 1, Groups E,F,G; Class III
- **Ex** ATEX/IECEX - Flameproof, Dust-Ignition protection
 - II 2G, II 2D - Ex db IIC T6...T4 Gb; Ex tb IIIC T110 °C Db
- **Ex** ATEX/IECEX - Intrinsically safe
 - II 1G - Ex ia IIC T6...T4 Ga
 - II 2G - Ex ia IIC T6...T4 Ga
 - Ex ia IIIC T85...T110 °C Db

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