

Endress +Hauser

iTEMP® PCP TMT111 Temperature DIN Rail Transmitter

Universal temperature transmitter for resistance thermometers (RTD), thermocouples, resistance and voltage transmitters, PC programmable, for installation on DIN rail according to IEC 60715

Product description

- 2-wire technology, 4 to 20 mA analog output
- Fault signal on sensor break or short circuit, presettable to NAMUR NE 43
- UL recognized component to UL 3111-1
- CSA General Purpose
- Meets the EMC requirements as per NAMUR NE21
- Ex-Certification:
 - ATEX Ex ia
 - CSA IS
 - FM IS
- Galvanic isolation 2 kV (input/output)
- Output simulation for quick and easy testing of the measurement loop



Field of application

- PC programmable (PCP) DIN rail temperature transmitter for converting various input signals into a scalable 4 to 20 mA analog output signal
- Usable for resistance sensor (RTD), thermocouple (TC), resistance transmitter (Ohm), voltage transmitter (mV)
- Configuration using a PC with TXU10-AA configuration kit (PC-software ReadWin[®]) 2000
- Installation on DIN rail according to IEC 60715, TH35

Technical data

Temperature transmitters

Measuring Principle	Resistance Temperature Detector	
Root	null	
Input	1 x RTD, TC, Ohm, mV	
Output	1 x analog 4...20 mA	
Auxiliary power supply	12...35 V DC (standard-version) 12...30 V DC (Ex-version)	
Communication	PCP (pc-programmable)	
Installation	DIN rail	
Accuracy	(Pt100, -50...200 °C) ≤ 0,2 K (Pt100, -58...392 °F) ≤ 0,4 °F	
Galvanic isolation	yes	
Certification	UL rec. Comp ATEX Ex ia CSA IS, NI	CSA GP FM USA IS, NI

Setup Information

For installation, wiring and commissioning follow the guidelines in the corresponding chapters of the operating instructions. Observe all safety notes of the operating instructions!

Maintenance Information

No Maintenance information available