# FUZYPRO X PROOF INDICATOR TRANSMITTER

# FIELD MOUNTED EXPLOSION PROOF TEMPERATURE TRANSMITTER

8080TR

- INPUTS: THERMOCOUPLE, RTD, OHM AND MV
- HIGH ACCURACY
- 2 WIRES, 4-20MA OUTPUT
- **EXCELLENT STABILITY**
- HIGH EMI-RFI IMMUNITY
- CONFIGURABLE BY PC COMMUNICATOR
- INPUT/OUTPUT ISOLATED
- 4 DIGIT LED DISPLAY
- EXPLOSION PROOF CERTIFIED
- 3 YEAR WARRANTY



#### Introduction

The FUZYPRO 8080TR is a Digital, PC programmable, galvanicaly isolated 2-wire smart transmitter. The unit converts 13 types of thermocouple sensors; 12 types of RTD sensors, configured as 2, 3 and 4 wires; potentiometer, resistor and millivolt inputs into process current loop. A 24 bit A/D converter is the heart of this outstanding performance.

#### Description

The FUZYPRO 8080TR Universal input Smart transmitters are designed for use in process industries where vibration, inclement weather and corrosive atmospheres prevail. The electronics are enclosed in a copper-free epoxy coated Aluminum housing and for more aggressive environments, a SS316 housing is optionally available. The housings meet the requirements of NEMA 4X & IP68, and are also certified Explosion Proof by FM/CSA/ ATEX/IECEx.

The output current is temperature linearized and can be set to be 4 to 20 or 20 to 4mA or any range within these limits. The current is limited to 3.6 and 22mA. The unit updates are 3 times per second for the display and 4 times per second (max) for the current output

Exceptional digital accuracy of typical +/-0.1°C is provided for all the sensors regardless of the calibrated span. Extremely accurate cold-junction temperature measurement provides precise compensation throughout the entire ambient range. The unit also accurately measures and compensates the RTD sensor leads in the 3-wire connection. The Transmitter can be set and wired to perform differential measurement conversions of temperature sensors as well as mV sources.

The Transmitter is fully configurable by connecting to a PC with no external power supply required. The configuration parameters are stored in a non volatile memory. Digital output data can be obtained via a communication port located on the front panel. Continuous, average and max/min readings can be monitored.

Detection of sensor breakage or disconnection of input leads, forces the output to a pre-defined up/down scale value. The unit continuously monitors the sensor and automatically returns to normal operation mode when the sensor is recovered.

## Mounting

A wide choice of stainless steel mounting brackets are available for mounting the Model 8080TR on either a 2" pipe or wall.

www.FUZYPRO.com email: hcs@hcs.com 800 279 9912

## **Functional Specifications**

Senso

13 types of thermocouple; 12 types of RTD, mv, potentionmeter, Ohms Calibration Accuracy

+/-0.05% of span

**Output Signal** 

4~20mA

Polarity Protection

Yes

Isolation

1500V AC between input and output

Burnout Protection

< 3.6mA or >22.1mA (configurable)

**Supply Voltage** 

13~36V DC

**Operating Temperature** 

-50~+80°C / -45~+185°F

Weight

0.9Kg (2Lb) for Aluminum unit and 1.4Kg for SS316 Unit

**Material of Construction** 

Enclosure epoxy coated Copper-Free Aluminum or SS316 as specified O Rings

Buna N

**Optional Accessories** 

Mounting Brackets (IME Model 175PM, 175RC, 175NR, 175MM)