

UNIVERSAL RS-485 TRANSMITTERS

PRODUCT SPECIFICATIONS

GENERAL

Description 3-wire Input, automatic sensor recognition and configuration, microprocessor based with non-volatile memory, LCD Display, magnetic non-intrusive user interface, analog and digital outputs, plus three (3) integral alarm relays. Conformal coated electronics.

Sensor Types Plug-in intelligent sensors, temperature compensated with nonvolatile memory. See back-page listing.

Service Indoor or Outdoor Locations.

ENCLOSURE OPTIONS

NEMA 4X Polycarbonate
5.3 (W) by 9.3 (H) by 3.3 (D) Inches
13.5 (W) by 23.5 (H) by 8.5 (D) cm
1.9 lbs. (0.8 kg)

HD (Div 2) Cast Aluminum (Copper-free)
6.1 (W) by 10.1 (H) by 4.9 (D) Inches
15.5 (W) by 25.6 (H) by 12.4 (D) cm
4.2 lbs. (1.9 kg)

Explosion-Proof .. Cast Aluminum (Copper-free)
6.1 (W) by 9.0 (H) by 4.9 (D) Inches
15.5 (W) by 22.9 (H) by 12.4 (D) cm
4.9 lbs. (2.2 kg)

ENVIRONMENTAL

Temperature -22° to 131°F (-30° to 55°C)
Subject to sensor temperature limits

Humidity 5-95 %RH, non-condensing

ELECTRICAL

Power 18-30 VDC, 60 mA-300 mA (worse case)

Linearity ± 0.4%, ± 1 digit

Repeatability ± 0.4%, ± 1 digit

OUTPUTS

All Models 3-wire 4-20 mA (600Ω) Name, Gas Value, & Measuring Units.

Controls ZERO, PROG, and SPAN magnetic switches for menu driven automated calibration, relay configuration, and reset.

APPROVALS

HD (Div 2) UL, Class I, Division 2, Groups A, B, C, & D

Explosion-Proof .. UL, Class I, Division 1, Groups B, C, & D

WARRANTY

Two years from date of shipment

ORDERING INFORMATION

NEMA 4X Transmitter (3-wire) 7013346-1

HD (Div 2) Transmitter (3-wire) 7013893-1

XP Transmitter (3-wire) 7013347-1

Sensor sold separately

- Transportable Calibration
- Automatic Sensor Recognition
- Displays Gas Name, Range & Units
- 3-Wire Operation
- Magnetic Non-intrusive Interface
- Choice of NEMA 4X, Division 2, or Explosion-Proof Enclosures
- RS-485 & 4-20 mA Output, Modbus RTU Protocol
- Three 5 Amp, SPDT Alarm Relays
- Approved for Divisions 1 and 2



NEMA 4X Model



Explosion-Proof (XP) Model



Heavy Duty (HD) Model

Adding Alarm Relays and RS-485 Output to the SensAlert® Universal Transmitter opens up many new applications and integration possibilities. The serial output uses Modbus RTU protocol, and a 4-20 mA output is also provided, in addition to three SPDT alarm relays.

The expanded user interface (MMI) is magnetic, and functional testing, calibration and alarm setting are menu driven. The LCD display is used to lead the user through all functions, in addition to normally indicating the value, measuring units, and gas name. Three LEDs are provided for alarm annunciation.

The Digital transmitter is approved for Class I, Divisions 1 and 2, using optional enclosures. Integrating a large number of transmitters can be achieved by using a multi-drop loop, connecting up to 128 units with two or four wires, plus the required 24 VDC power wiring.

Accessories, including duct mount, sample draw equipment, and remote sensor kits provide maximum application flexibility.