

UNIVERSAL 4-20 mA TRANSMITTERS

PRODUCT SPECIFICATIONS

GENERAL

Description 2- or 3-wire Input, automatic sensor recognition and configuration, microprocessor based with nonvolatile memory, LCD Display, magnetic non-intrusive user interface, analog output, and optional integral alarm relay. Conformal Coated Electronics.

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

Service Indoor or Outdoor Locations, including hazardous classified areas.

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 0-95 %RH, non-condensing

ELECTRICAL

Power 15-30 VDC, 20-115 mA (without relay)
18-30 VDC, 60-300 mA (with relay)

EMI/RFI Certified to EN 50082-1
Certified to IEC 801-2, 801-3, & 801-4

OUTPUTS

All Models 2-wire or 3-wire 4-20 mA (600Ω)

Optional Relay .. SPDT, 5 amp, 230 VAC or 24 VDC, Resistive

USER INTERFACE

Display 2-line alphanumeric LCD display for Gas Name, Gas Value, & Measuring Units.

Controls ZERO and SPAN magnetic switches for menu driven automated calibration.

APPROVALS

All Models CE Mark

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

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

Intrinsic Safety NEMA 4X and HD (I.S.) models (without relay) are approved intrinsically safe (UL 913) for Class I, Div 1, Groups A, B, C, & D, when installed with listed Sensidyne Barrier.

WARRANTY

Two years from date of shipment

ORDERING INFORMATION

NEMA 4X Transmitter (I.S.) (2-wire)	7013182-1
NEMA 4X Transmitter (I.S.) (3-wire)	7013182-2
NEMA 4X Transmitter (3-wire w/relay)	7013305-2
HD (I.S.) Transmitter (2-wire)	7013183-1
HD (I.S.) Transmitter (3-wire)	7013183-2
HD (Div 2) Transmitter (3-wire w/relay)	7013306-2
HD (Div 2) Transmitter (2-wire)	7013941-1
HD (Div 2) Transmitter (3-wire)	7013941-2
XP Transmitter (2-wire)	7013276-1
XP Transmitter (3-wire)	7013276-2
XP Transmitter (3-wire w/relay)	7013377

Sensor sold separately

- Transportable Calibration
- 4-20 mA Output
- Automatic Sensor Recognition
- Displays Gas Name, Range & Units
- 2-Wire or 3-Wire Operation
- Magnetic Non-intrusive Interface
- Choice of NEMA 4X, Division 2, or Explosion-Proof Enclosures
- Optional I. S. Installation
- Optional Alarm Relay



NEMA 4X Model



Explosion-Proof (XP) Model



Heavy Duty (HD) Model

Labor-saving is how major users describe the SensAlert® Universal Transmitter. Introduced three years ago, it uses advanced components and rigorous ergonomic design, to significantly improve reliability and reduce maintenance.

The Sensidyne family of Universal 4-20 mA transmitters includes 2-wire and 3-wire versions, three enclosure styles, and third party approval for Intrinsically Safe installation. A variety of accessories, including duct mount and sample draw equipment, complete this exceptional product line.

The transmitter automatically recognizes all SensAlert® sensors, displaying the gas name, engineering units, and value. And, it performs linearization, plus temperature compensation from sensor stored data. This delivers an accurate, drift-free measurement over the widest range of environmental conditions.

The user interface (MMI) is magnetic, and functional tests plus calibration are menu driven, from "APPLY GAS NOW," to "CAL OK." The new calibration data are written into sensor memory and used for continuing accurate operation.