



ULTRASENSE EDPT

Electronic Differential Pressure Transmitters

APPLICATIONS

ULTRATECH ULTRASENSE Electronic Differential Pressure Transmitters (EDPT) provide accurate, reliable transmission of low pressure signals associated with the measurement and control of air/gas pressures or flows. They are especially applicable to HVAC and combustion processes, building or furnace static pressures, smokestack flows, computer or process clean rooms, and wind tunnel measurements.



EDPT

These transmitters are particularly useful in computer data-gathering applications. EDPTs mounted directly on ULTRAC Airflow Measuring Stations or Pressure Measuring Stations provide an electric output signal directly to a computer or microprocessor terminal. This eliminates the need for interface instruments such as P/I transducers or accessory square root extractors and provides more reliable data.



EDPT-AZ

DESCRIPTION

The ULTRASENSE EDPT is designed for industrial applications requiring measurement of extremely low pressures. Full-scale ranges as low as 0.08 inches water column differential (or gage) pressure are available. The EDPT has easily accessible ZERO and SPAN adjustments and ships factory-tested and calibrated to any custom span for immediate operation.

The standard transmitter consists of a variable reluctance pressure transducer with associated electronics installed in a 3.6"H x 1.75"W x 3.31" D, NEMA 1 aluminum housing. This slim unit, with all adjustments and connections on one end, allows for dense mounting in either a panel supplied by ULTRATECH or in a pre-existing panel.

DESCRIPTION (CONTINUED)

The EDPT is available with several options including a variety of voltage or current output signals, an integral square root extractor for flow signals, and an auto-zero function.

When installed in an additional enclosure by ULTRATECH, several other options are also available:

- an adjustable pneumatic purge through the HIGH and LOW lines
- digital or analog output meters
- an electronic process controller
- a converter to provide a pneumatic output signal

Please consult ULTRATECH for other features and options available.

SPECIFICATIONS

ACCURACY: +/-0.5% Full scale
OVERPRESSURE: 5 psig
MAXIMUM LINE PRESSURE DROP: 5 psig
OPERATING TEMPERATURE: 0-160°F
SUPPLY VOLTAGE: 12-35 VDC
LOAD RESISTANCE: 300 OHMS AT 12 VDC,
1450 OHMS AT 35 VDC (linear)
ELECTRICAL CONNECTIONS: Two screw-type
PNEUMATIC CONNECTIONS: Option 00-1/8" straight tube, all others 1/4" NPT female or specify
MATERIAL: Diaphragm & body 410 stainless steel

ORDERING INFORMATION

ULTRASENSE EDPT- _____ (- _____)

SERIES _____

- 00 - NEMA 1 Case (Loose)
- 01 - NEMA 1 Enclosure
- 04 - NEMA 4 Enclosure
- 12 - NEMA 12 Enclosure
- Z - Special (specify)

SPAN _____

Specify (3 decimal places if required)

OUTPUT _____

- A - 4-20 mADC
- B - 0-10 VDC
- C - 0-5 VDC
- Z - Special (Specify)

INPUT _____

- 15 - 115 VDC/60HZ
- 24 - 24 VDC +/-15%
- Z - Special (Specify)

OPTIONS _____

- SR - Square root extractor module for flow linearization
- PM - Purge module to purge primary sensing lines (requires air or gas purge supply)
- CP - Current to pneumatic converter for 3-15 psig output
- DM - Digital panel meter
- AM - Analog panel meter
- MZ - Manual-zero switch
- AZ - Auto-zero
- HA - High accuracy, 0.25%
- ZZ - Special (specify as required)