

# ULTRASENSE EDPTjr

## Electronic Differential Pressure Transmitters

Accurate,  
Reliable,  
Repeatable  
Air Flow  
Measurement

SPEC EP-0027-2

ULTRASENSE EDPTjr



ULTRASENSE EDPTjr DM

### ULTRASENSE EDPTjr

- Electronic differential pressure transmitter provides accurate and reliable transmission of low pressure signals associated with air/gas flow measurement
- Designed for industrial applications requiring measurement of extremely low pressures
- Full scale ranges as low as 0.10 inches water column differential pressure available
- Square Root Extraction available which converts velocity pressure to CFM
- Easily accessible Zero and Span adjustments
- Ships factory tested and calibrated to any custom span for immediate operation

### Specifications For Standard Units

- Accuracy:** +/0.5% Full scale
- Overpressure:** 1 psig
- Maximum line pressure drop:** 10 psig
- Operating temperature:** 0-140°F
- Supply voltage:** 13-35 VDC
- Load resistance:** 0 OHMS AT 13 VDC, 1100 OHMS AT 35 VDC (linear)
- Electrical connections:** Two screwtype
- Pneumatic connections:** 00-3/16" straight bard, all others 1/4" NPT female or specify
- Material:** Diaphragm & body ceramic

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## Electronic Differential Pressure Transmitters

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### Applications

**ULTRATECH ULTRASENSE** Electronic Differential Pressure Transmitters (EDPTjr) 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.

These transmitters are particularly useful in computer data-gathering applications. EDPTjr's are 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.

### Description

The ULTRASENSE EDPTjr is designed for industrial applications requiring measurement of extremely low pressures. Full-scale ranges as low as 0.10 inches water column differential (or gage) pressure are available. The EDPTjr 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 capacitance 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.

The EDPTjr is available with several options including a variety of voltage or current output signals and an integral square root extractor for flow signals.

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 convertor to provide a pneumatic output signal

Please consult ULTRATECH for other features and options available.

### ULTRASENSE EDPTjr Ordering Information

#### 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)

#### Options

- SR – Square root extractor module for flow linearization
- PM – Purge module to purge primary sensing lines (requires air or gas purge supply)
- DM – Digital panel meter
- FIM – Flow Indicating Meter
- ZZ – Special (specify as required)

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