

PRESSURE TRANSDUCERS

SPECIFICATION SHEET



DESCRIPTION

RenewAire's Pressure Transducer utilizes a high-precision, piezoresistive silicon sensing element to monitor differential pressure in HVAC applications. Designed for versatility, the unit features field-selectable analog outputs (0-5 VDC, 0-10 VDC, or 4-20 mA) and supports both uni-directional and bi-directional pressure ranges.

Note: The signal is proportional to the pressure and is not a control signal. A separate controller such as the RenewAire Premium Integrated Programmable Controls package is required.

FEATURES

- ◆ Differential Low Pressure (Uni/Bi-Directional)
- ◆ Hinged Cover
- ◆ Field Selectable Ranges and Outputs
- ◆ Pitot Tube or Din Rail mounting

PART NUMBER	DESCRIPTION
131315	Pressure Transducer with display, 0-1", 2", 5", 10", Pitot Tube, and DIN Rail Clip
131314	Pressure Transducer with display, 0-0.1", 0.2", 0.5", 1", Pitot Tube, and DIN Rail Clip

SPECIFICATIONS	
Supply Voltage	4-20 mA: 16-36 VDC (250 Ω max load)/22-36 VDC (500Ω max load) 0-5/10 VDC: 15-36 VDC or 24 VAC +/-, 50/60 Hz
Supply Current	4-20 mA Output: 24 mA minimum 0-5 VDC/0-10 VDC Output: 6 mA maximum
Response Time (0-100% FSO)	4 seconds
Output Update Rate	0.5 seconds
Accuracy (includes linearity, hysteresis, and repeatability at 71°F (21.5°C))	+/- 0.5% FSO; +/- 0.25% (only for specified range)
Zero Function	Pushbutton zero function
Thermal Effects (shift is relative to 71°F (21.5°C))	+/- 0.067% FSO/°F (0.12% FSO/°C)

SPECIFICATIONS CONT.

Proof Pressure/Burst Pressure	131314: Proof Pressure: 270 inWC (67.2 kPa) Burst Pressure: 415 inWC (103.3 kPa) for 1inWC (249.8 Pa) 131315: Proof Pressure: 350 inWC (87.12 kPa) Burst Pressure: 550 inWC (136.9 kPa) for 10inWC (2490.8 Pa)
Operating Temperature Range	-4 to 185 °F (-20–85 °C)
Compensated Temperature Range	32 to 122 °F (0–50 °C)
Storage Temperature Range	-22 to 185 °F (-30–85 °C)
Operating Humidity	10 to 95% RH, non-condensing
Compatible Media	Dry air or inert non-conductive gases
Enclosure Rating	Flame-retardant Polycarbonate (UL94-5VA)
Wiring	Spring-loaded pushbutton terminals (16–24 AWG)
Conduit Knockouts	Watertight cord grip (removable for 1/2" NPT fittings)
Pressure Fitting Material	Nickel Plated Brass or Stainless Steel

DIMENSIONS

Dimensions are shown in inches and mm, unless stated otherwise.

