— Measures draft range differential pressures
— 4-20 mA dc output
— Rugged construction for industrial environments
— 3-Wire transmitter

The 8351A-T Furnace Pressure Transmitter converts
differential pressure signals to 4-20 mA output signals.
Used in conjunction with a current input controller such as
the 8199 or a PLC, it provides stable furnace pressure.

Controlling furnace pressure is generally used to maintain a
slightly positive pressure, providing:

— improved product quality
— maintenance savings by preventing excessive fluing
  through cracks and doors
— elimination of cold air infiltration, preventing load
cold spots
— prevention of furnace atmosphere contamination

The 8351A-T is available in five standard control ranges in
inches wc. With the 8351-C EPIC II Controller, the transmitter
forms a stable, highly sensitive pressure control system. It
can be used to control furnace eductor, or duct pressure.

The 8760 series manifold blocks are options available
for use with the 8351A-T. They provide in-line calibration
capability.
SPECIFICATIONS

**Operating Temperature Range:** 0-140 F (–18 to 60 C).

**Zero Drift:** Less than 2% of span per 100 F.

**Power Requirements:** 24 V dc at 75 mA max. (provided by 8351-C if used).

**Output:** 4-20 mA dc, 3 wire circuit into 650 ohm max. load.

**Size:** 9 5/8” × 9” × 8 1/2” overall (not including mounting brackets).

**Weight:** 22 lb.

**Case Material:** Cast Aluminum.

**Pressure Tap Size:** ½” fpt.

**Electrical Entrance Size:** ¾” fpt.

**Max. Allowable Pressure:** Differential 1 psi; static 2 psi.

**Wet Cell Material:** Aluminum, stainless steel, Buna-N, gold.

DIMENSIONS inches

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4 mounting holes
5/8-18 unc top 7/8 deep

1 1/2 max.-w/1 1/4 pipe size
1 1/8 min.-w/ 3/4 pipe size

pipe clamp bracket-fit 3/4 -1 1/4 pipe sizes

support pipe

1/2" inlet port 2
1 1/2" inlet port 1

"HI" inlet port 1
1/2" fpt

"LO" inlet port 2
2 1/2" fpt

conduit port
3/4" fpt

7/16"

4 3/4

2 3/4

3/4" fpt

9 3/4

8 1/2

2 1/2

1" conduit port
3/4" fpt

4 3/4

2 3/4

3/4" fpt

9 3/4

8 1/2

2 1/2

1" conduit port
3/4" fpt
```

To order, specify:

8351A-T-(Specify 3rd term)
-01: -0.05 to +0.15" wc (standard)
-02: 0 to +0.2" wc
-03: -0.05 to +0.3" wc
-04: -0.2 to +0.2" wc
-05: -0.3 to +0.3" wc
-06: custom range within maximum range of ±0.3" wc.

**Example:** 8351A-T-01 EPIC II Transmitter

**WARNING:** Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Parts of this product may exceed 160F in operation and present a contact hazard. Fives North American Combustion, Inc. urges compliance with National Safety Standards and Insurance Underwriters’ recommendations, and care in operation.