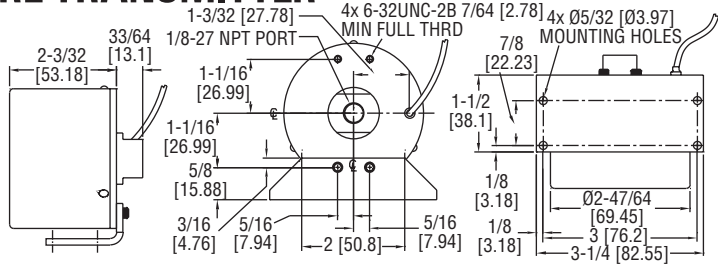


# HIGH ACCURACY DIFFERENTIAL PRESSURE TRANSMITTER

±0.14% FS Accuracy, NIST Certificate Included



**SERIES HADP** Differential Pressure Transmitter combines low ranges with exceptional stability, reliability and an outstanding accuracy of  $\pm 0.14\%$  FS. All models come with NIST certificates and are available in unidirectional and bi-directional ranges as low as 0 to 0.5 in w.c. and 0 to 5 psid. The Series HADP transmitters are extremely stable allowing for use in the most demanding applications.

## FEATURES/BENEFITS

- High stability at low pressure ranges provides exceptional accuracy for insuring tight-control and minimizing costly out of specification conditions
- Fast warm-up and response means no lag in monitoring and control that can cause time consuming false alarm conditions

## APPLICATIONS

- Clean rooms
- Leak detection
- Environmental testing
- Medical instruments
- Energy management

MODEL CHART			
Current Output Model	Range	Max Pressure High Port	Max Pressure Low Port
HADP-UC-00	0 to 0.5 in w.c.	5 psi	2.5 in w.c.
HADP-UC-01	0 to 1 in w.c.	7 psi	5 in w.c.
HADP-UC-03	0 to 5 in w.c.	20 psi	25 in w.c.
HADP-UC-04	0 to 15 in w.c.	50 psi	75 in w.c.
HADP-BC-08	0 to $\pm 0.25$ in w.c.	5 psi	2.5 in w.c.
HADP-BC-09	0 to $\pm 0.5$ in w.c.	7 psi	5 in w.c.
HADP-BC-10	0 to $\pm 1$ in w.c.	10 psi	12.5 in w.c.
HADP-BC-12	0 to $\pm 7.5$ in w.c.	50 psi	75 in w.c.
HADP-UC-06	0 to 5 psid	75 psi	25 psi
HADP-BC-14	0 to $\pm 2.5$ psid	75 psi	25 psi

**Note:** For voltage output models change HADP-XC-XX to HADP-XV-XX.

## SPECIFICATIONS

**Service:** Compatible non-conducting air/gas.  
**Wetted Parts:** Consult factory.  
**Accuracy:**  $< \pm 0.14\%$  FS.  
**Stability:**  $< \pm 0.1\%$  FS over 6 months @ 70°F (21°C).  
**Pressure Limits:** See model chart.  
**Temperature Limits:** Operating: 0 to 175°F (-18 to 71°C); Storage: -65 to 250°F (-53 to 121°C).  
**Compensated Temperature Range:** 30 to 150°F (-1 to 65°C).  
**Thermal Effect:**  $< \pm 1.0\%$  FS/100°F.  
**Power Requirements:** 17 to 42 VDC for current models, 22 to 30 VDC for voltage models.  
**Output Signal:** 4 to 20 mA for current models, 0 to 5 VDC for voltage models.  
**Zero and Span Output:** Zero output: Factory set to within  $\pm 0.07$  mA; Span output: Factory set to within  $\pm 0.07$  mA.

**Loop Resistance:** Min. supply voltage (VDC) =  $17 + 0.02 \times$  Resistance of receiver plus line; Max. supply voltage (VDC) =  $42 + 0.004 \times$  Resistance of receiver plus line.  
**Zero and Span Adjustments:** None.  
**Response Time:**  $< 5$  ms.  
**Current Consumption:**  $< 30$  mA.  
**Electrical Connections:** 2 ft cable.  
**Process Connections:** 1/8"-27 NPT internal (both positive and negative ports).  
**Mounting Orientation:** Pressure port 90° parallel to ground.  
**Thermal Effects:** Max. zero:  $\pm 1.0$  ( $\pm 1.8$ ); %FS/100°F (100°C) max.  
**Weight:** 8 oz (227 g).  
**Agency Approval:** CE.

## OPTIONS

To order add suffix:	Description
-T1	Expanded temp range -65 to 250°F (-53 to 121°C)
-A1	Improved accuracy $\pm 0.073\%$ FS