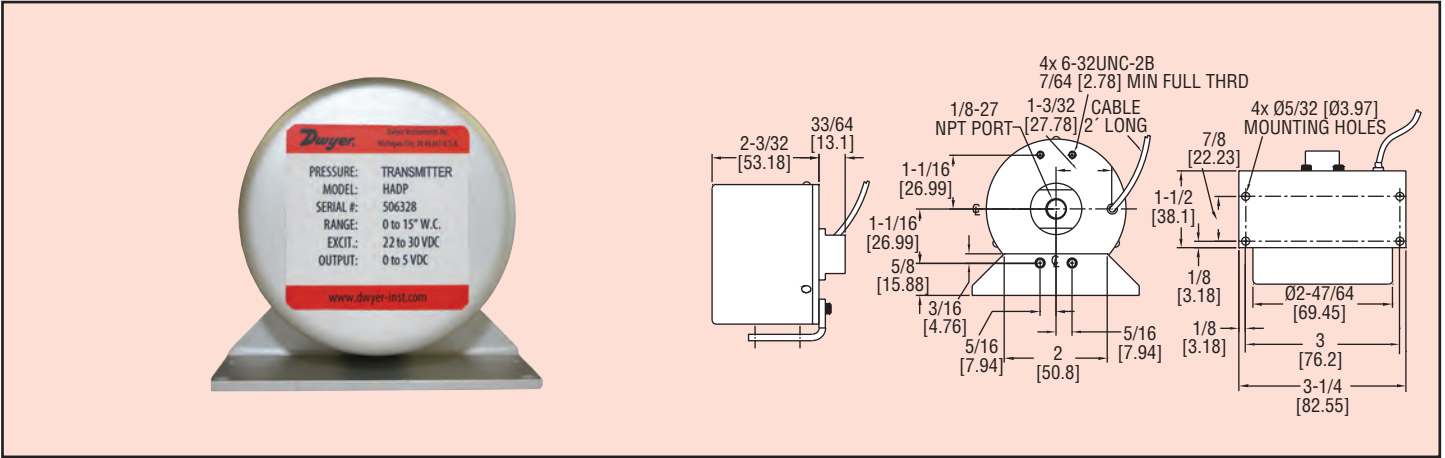




Series
HADP

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 ±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. These transmitters are ideal for a variety of applications such as HVAC control, leak detection, medical instrumentation, clean rooms, energy management, and environmental testing. With minimal thermal effects and the ability to withstand high overpressures, the Series HADP transmitters are extremely stable allowing for use in the most demanding applications.

SPECIFICATIONS

Service: Compatible non-conducting air/gas.

Wetted Parts:

- Positive (high) Pressure Port: Gases compatible with SS, hard anodized 6061 aluminum (Buna-N O-ring);
- Reference (low) Pressure Port: Anodized aluminum, alumina ceramics, gold, fluorocarbon elastomer sealant & Buna-N O-ring.

Accuracy: < ±0.14% FS; Optional: ±0.073% FS.

Stability: < ±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), optional: -65 to 250°F (-53 to 121°C);
- Storage: -65 to 250°F (-53 to 121°C).

Compensated Temperature Range: 30 to 150°F (-1 to 65°C).

Thermal Effect: < ±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 ±0.07 mA;
- Span (FS) output: Factory set to within ±0.07 mA.

Loop Resistance:

- Min. supply voltage (VDC) = 17 + 0.02 x Resistance of receiver plus line;
- Max. supply voltage (VDC) = 42 + 0.004 x Resistance of receiver plus line.

Zero and Span Adjustments: None.

Response Time: < 5 ms.

Current Consumption: < 30 mA.

Electrical Connections: 2 ft multi-conductor 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: ±1.0 (±1.8); %FS/100°F (100°C) max.

Weight: 8 oz (227 g).

Agency Approval: CE.

OPTIONS

To order option, add suffix to part number, i.e. HADP-UV-00-T1.

- T1 Expanded temp range -65 to 250°F (-53 to 121°C)

- A1 Improved accuracy ±0.073% FS

For NIST traceable calibration certificate, use order code NISTCAL-PT1.

Model	Range in w.c.	Max Pressure High Port	Max Pressure Low Port
HADP-UV-00	0 to 0.5	5 psi	2.5 in w.c.
HADP-UV-01	0 to 1	7 psi	5 in w.c.
HADP-UV-02	0 to 2.5	10 psi	12.5 in w.c.
HADP-UV-03	0 to 5	20 psi	25 in w.c.
HADP-UV-04	0 to 15	50 psi	75 in w.c.
HADP-UV-05	0 to 30	50 psi	150 in w.c.
HADP-UC-00	0 to 0.5	5 psi	2.5 in w.c.
HADP-UC-01	0 to 1	7 psi	5 in w.c.
HADP-UC-02	0 to 2.5	10 psi	12.5 in w.c.
HADP-UC-03	0 to 5	20 psi	25 in w.c.
HADP-UC-04	0 to 15	50 psi	75 in w.c.
HADP-UC-05	0 to 30	50 psi	150 in w.c.
HADP-BV-08	0 to ±0.25	5 psi	2.5 in w.c.
HADP-BV-09	0 to ±0.5	7 psi	5 in w.c.
HADP-BV-10	0 to ±1	10 psi	12.5 in w.c.
HADP-BV-11	0 to ±2.5	20 psi	25 in w.c.
HADP-BV-12	0 to ±7.5	50 psi	75 in w.c.
HADP-BV-13	0 to ±15	50 psi	150 in w.c.
HADP-BC-08	0 to ±0.25	5 psi	2.5 in w.c.
HADP-BC-09	0 to ±0.5	7 psi	5 in w.c.
HADP-BC-10	0 to ±1	10 psi	12.5 in w.c.
HADP-BC-11	0 to ±2.5	20 psi	25 in w.c.
HADP-BC-12	0 to ±7.5	50 psi	75 in w.c.
HADP-BC-13	0 to ±15	50 psi	150 in w.c.
Model	Range psid	Max Pressure High Port	Max Pressure Low Port
HADP-UV-06	0 to 5	75 psi	25 psi
HADP-UV-07	0 to 10	100 psi	50 psi
HADP-UC-06	0 to 5	75 psi	25 psi
HADP-UC-07	0 to 10	100 psi	50 psi
HADP-BV-14	0 to ±2.5	75 psi	25 psi
HADP-BV-15	0 to ±5	100 psi	50 psi
HADP-BC-14	0 to ±2.5	75 psi	25 psi
HADP-BC-15	0 to ±5	100 psi	50 psi

Note: HADP-XV-XX is for voltage, and HADP-XC-XX is for current.

See page 587 for process tubing options.