

IA2DU Differential Pressure Gauge & Transmitter

Series A2DU

Specifications

Gauge Specifications

Service: Air and non-combustible, compatible gases

Ranges: See Range Selection Chart

Accuracy: 2% of full span standard, and 4% on A2DU-60Pa and A2DU-125 Pa.

Ambient Temperature: -7 ~ 60C

Pressure Limit: -68 ~ 100KPa

Overpressure: Relief plug opens at approximately 15Psi (100KPa)

Process Connections: 1/8 female NPT duplicate high and low pressure taps: one pair side and one pair back

Case and Bezel Material: Die cast aluminum

Weight: 460g

Dial Size: 4 Diameter

Mounting Position: Vertical

Standard Accessories: Two 1/8 NPT plugs for duplicate pressure taps, two 1/8 pipe thread to rubber tubing adapter, and three flush mounting adapters with screws

Transmitter Specifications

Accuracy: ±2%FS (includes non-linearity, hysteresis and repeatability).

Ambient Temperature: -7 ~ 60°C

Temperature drift: 0.05%

Power supply: 12-30VDC

Output signal: 4-20mA

Zero adjustment: the same as gauge.

Loop resistance: 0—1250 ohms maximum.

Current consumption: 30mA

Electrical connection: plastic aviation plug



Features

- Magnet-helix indicating mechanism ideal for low DP measurement
- A wide selection of ranges from 0Pa to 60Pa at up to 10KPa
- Accuracy 2% of FS
- Inertia-free, drift-free pointer indication
- Combination of gauge and transmitter together
- OEM solutions available

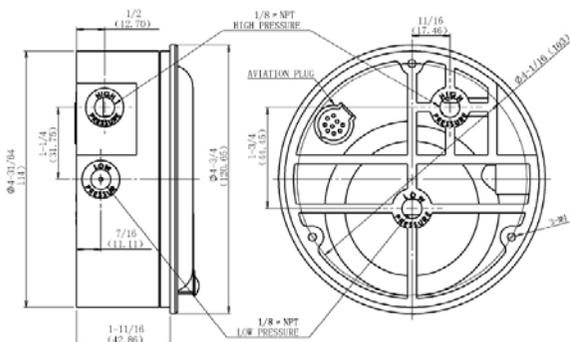
Indicating Mechanism

When pressure is applied to both sides of the diaphragm in operation, any difference in pressure causes the diaphragm, the spring that the diaphragm is linked to, and the magnet attached to the spring to move. The movement of the magnet forces the magnetic helix to turn in order to maintain the gap, and the pointer fixed to the helix turns with it

Applications

The series A2DU gauge&transmitter is designed to measure positive, negative, or differential pressure of low air and non-corrosive gases with a full span accuracy of 2% at a competitive price. They are widely used for filter condition checks, HVAC control, and the measurement of fan and blower pressures, air velocity, and pressure drop across orifice plates applications, as well as other applications in the pharmaceutical and semiconductor manufacturing industry.

Dimensional Drawing (inch/mm)



Model Chart

Model number	Range (Pa/KPa)	Mechanical accuracy +/-%	Electrical accuracy +/-%
A2DU-60Pa	0-60	4	2
A2DU-100Pa	0-100	4	2
A2DU-125Pa	0-125	4	2
A2DU-250Pa	0-250	3	2
A2DU-300Pa	0-300	3	2
A2DU-500Pa	0-500	2	2
A2DU-750Pa	0-750	2	2
A2DU/Z-120Pa	60-0-60	4	2
A2DU/Z-250Pa	125-0-125	4	2
A2DU/Z-500Pa	250-0-250	3	2
A2DU-1KPa	0-1	2	2
A2DU-1.5KPa	0-1.5	2	2
A2DU-2KPa	0-2	2	2
A2DU-3KPa	0-3	2	2
A2DU-4KPa	0-4	2	2
A2DU-5KPa	0-5	2	2
A2DU-8KPa	0-8	2	2
A2DU-10KPa	0-10	2	2
A2DU/Z-1KPa	0.5-0-0.5	2	2
A2DU/Z-3KPa	1.5-0-1.5	2	2
Model number	Range (in w.c.)	Mechanical accuracy +/-%	Electrical accuracy +/-%
A2DU-0.25IN	0-0.25	4	2
A2DU-0.5IN	0-0.5	4	2
A2DU-1.0IN	0-1.0	4	2
A2DU-2.0IN	0-2.0	3	2
A2DU-3.0IN	0-3.0	3	2
A2DU-4.0IN	0-4.0	2	2
A2DU-5.0IN	0-5.0	2	2
A2DU-6.0IN	0-6.0	2	2
A2DU-8.0IN	0-8.0	2	2
A2DU-10IN	0-10	2	2
A2DU-15IN	0-15	2	2
A2DU-20IN	0-20	2	2
A2DU-25IN	0-25	2	2
A2DU-30IN	0-30	2	2
A2DU-40IN	0-40	2	2
A2DU/Z-0.5IN	0.25-0-0.25	4	2
A2DU/Z-1.0IN	0.5-0-0.5	3	2
A2DU/Z-2.0IN	1-0-1	2	2
A2DU/Z-4.0IN	2-0-2	2	2
A2DU/Z-10IN	5-0-5	2	2
AA2DU/Z-30IN	15-0-15	2	2