

MODEL: ASI 7200 *Monocrystalline Silicon Differential Pressure Transmitter*



ASI 7200 Monocrystalline Silicon Differential Pressure Transmitter uses high stability differential pressure chip. The monocrystalline silicon design achieves internationally leading high-precision, ultra-high overload performance and superior stability. The embedded signal processing module achieves a perfect combination of static pressure and temperature compensation, achieving high accuracy and long-term stability over a wide range of static pressure and temperature changes.

The ASI 7200 Monocrystalline Silicon Differential Pressure Transmitter uses voltage power supply, and convert the measured differential pressure value into 0.5-4.5V Ratiometric, 0-5VDC, 4~20mA or 4~20mA+RS485-MODBUS protocol current signal.

PERFORMANCE @ 21°C (70°F)

Accuracy*	0.5% FS, MAX
Stability (1 year)	<±0.1% FS
Pressure Range Lowest	0-8 inches H ₂ O
Pressure Range Highest	0-450 PSID
Response time	≤1ms (up to 90%FS)
Reverse Polarity Protection	Yes
Overpressure	2500PSI
Maximum Static Pressure	5800PSI

Output	Excitation	Zero Offset	Span Tolerance
0.5-4.5V Ratiometric	5VDC	<±0.5% of FS	<±1% of FS
0-5V	10-28VDC		
4-20mA			
RS485-MODBUS			

* Accuracy includes non-linearity, hysteresis & non-repeatability, <0.25% FS available.

PHYSICAL DESCRIPTION

Wetted Materials	316L Stainless Steel, Hastelloy C276 diaphragm optional
Weight	1000g
Electrical Connections	Cable, M12x1, Din 43650A

APPLICATIONS:

- Tank Level Monitoring
- Flow Measurements
- Filter Clogging Monitoring

BENEFITS:

- Ultra-high stability differential pressure die
- High accuracy and excellent stability
- Static pressure error within ±0.1%FS/10MPa
- Patented double overpressure protection diaphragm design
- Unilateral overpressure limit of up to 5800PSI
- High accuracy temperature sensor inside
- Intelligent temperature compensation
- Positive and negative pressure completely symmetrical, no O-ring inside
- All welded integrated structure

ENVIRONMENTAL DATA

Temperature

Operating	-40 to 85°C
Storage	-40 to 125°C

Thermal Limits

Compensated Range	-20°C to 80°C
TC Zero	< ±1.5% of FS
TC Span	< ±1.5% of FS

Other

Shock	100 (11 ms)
Vibration	20g (20-5000HZ)
EMI/RFI Protection	Yes
Rating	IP-65

