DATAQ 2000433 Industrial Grade Pressure Transmitter

The DATAQ 2000433 Industrial grade pressure transmitter stands out as a pinnacle of stability, harnessing a specialized ASIC signal conditioning chip in tandem with a high-performance SS316L diaphragm diffused silicon strain gauge pressure sensor. This unique integration allows the internal ASIC circuit to seamlessly convert millivolt signals into standard voltage or current outputs. Its versatility extends to effortless connectivity with PC interface cards, control instruments, smart gauges, or PLC systems. Notably compact and constructed with a lightweight yet robust stainless steel sealing structure, this transmitter thrives even in corrosive environments, ensuring unwavering performance

Application

DATAQ 2000433 family pressure transducer is solution for below applications:

- Pressure measurement of gas, vapor or liquid in various areas;
- Liquid level, volume or mass measurement;
- Integrated in a variety of user-defined solutions;
- Smart hydraulic and gas management system, smart fire controlling, automotive electronics controlling, air compressor, HVAC, pump, valve and etc;

Features

- Specific high performance ASIC conditioning circuit;
- 2000433:Diffused silicon pressure strain gauge sensor;
- Stainless steel housing;
- High impact resistance
- High accuracy 0.25%
- 0.5…4.5V or 4…20mA analog output;
- Fast respond, no hysteresis ;
- Various process thread or other customization port acceptable;
- Accurate, stable and reliable

Specifications

Performance

Input	
Pressure type	Gauge pressure
Measuring range	100 to 145 00 PSI
Output	
2000433-HS	0.5-4.5V
2000433-HSX	4-20mA
2000433	Linearity, hysteresis, repetitiveness : < 0.25 % sensor full scale
Overload	2X pressure sensor full scale
Housing Info.	
Housing Material	SS 304
Wetting Material	SS316L
Ingress Protection	IP67

Power Supply

2000433-HSX	24 VDC regulated power supply
2000433-HS	4.75 -5 .25 VDC regulated power supply

Operating Temperature

2000361-HS/HSX	**-40C to 80C**