Ceramic Capacitive Pressure Sensor

General information of ADIP-612SC Long-term Stability Ceramic Capacitive Pressure Sensor

Introduction:

- ✓ ADIP-612SC series is dry ceramic capacitive pressure sensor made by special technology processed ceramic.
- ✓ Ceramic is a well-known material with long-range elasticity, anti-corrosion, wear & shock resistance and anti-vibration.
- ✓ Thermal stability of the ceramic makes its operating temperature range up to -40to135 ℃ with high accuracy and high stability in measurement.
- ✓ Its anti-overload capacity is up to 100 times of the range, completely solved poor overload in small range of other sensors.
- ✓ In addtion to general ranges of normal sensors, its most outstanding characteristic is the positive and negative gauge pressure function, such as: ± 10kPa, ± 1MPa and so on.
- ✓ With high output and wide range,ADIP-612SC ceramic capacitive sensor is especially suitable for manufacturing of high-performance industrial,control pressure transmitter and harsh environment pressure measurement.

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Quick Information:

- Dry ceramic capacitive pressure sensor
- Robust ceramic capacitive sensitive diaphragm
- Excellent performance in corrosion and abrasion application
- Suitable for pollution and corrosive environment
- Flat large round diaphragm, easy installation
- Superb positive and negative gauge pressure function
- Highest overload up to 100 times of pressure range
- Rapid response, no hysteresis
- Wide operating temperature range -40~135℃
- Sensor specific signal conditioning
- 0.5 ... 4.5V & I²C available, SPI & 4~20mA optional

Application:

- Pressure measurement of gas, vapor or liquid in various areas
- Liquid level, volume or mass measurement
- Integrated in a variety of user-defined solutions

Technical specification of the device:

- Pressure range: 0~10MPa
- Permissible temperature: Compensation Temperature
- Operation Temperature: Environment Temperature
- Storage Temperature: -20~70℃/-40~135℃/-40~85℃/-40~85℃
- Accuracy: 0.2%FS, 0.5%FS, 1%FS
- Output signals: 0.5~4.5v, I2C, 4~20mA
- Long-term stability: 0.1%FS/year
- Power supply: 2.5~5.5VDC
- Sensor type: Ceramic capacitive
- Pressure type: Gauge pressure, sealing pressure, absolute pressure
- Application: Suitable for pollution and corrosive environment
- Overload: Highest 100 times of measuring range
- Linearity: Maximum linearity: <0.2%FS
- Hysteresis: Repeatability: <0.1% FS

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