



## CERAMIC CAPACITIVE HERMETIC PRESSURE SENSOR

### 2CH Series

5 Vdc, 6-32 Vdc Supply, Voltage and 4-20 mA Output

### WORLD CLASS PERFORMANCE

The Sensata 2CH Series of hermetic pressure sensors are ideally suited for the most demanding industrial applications. This new device offers case isolation over 1800 volts. It is a high accuracy product with a wide variety of input and output options including voltage and 4-20 mA outputs.

Sensata Technologies has been a leading global supplier of pressure sensors & switches for over 50 years.

#### Features & Benefits

- Non-oil filled welded hermetic front end
- Absolute or gauge reference
- High accuracy and repeatability
- Pressure ranges available from 100 to 750 psi
- Voltage, millivolt and 4-20 mA outputs
- Dielectric strength of 1800 Vac for 1 sec
- EMC protection exceeding 100 V/m
- Multiple configurations, including all stainless

#### Applications

- Hydraulics
- Air compressors
- Pumps
- Braking systems
- Processing equipment
- Air conditioning
- Beverage dispensing
- Commercial refrigeration
- HVAC

#### Technical Specifications

Performance	Physical
Accuracy: ..... 0.4% F.S. typical (static error band @ 25°C, 5.0 Vdc) (linearity, hysteresis, repeatability, calibration)	Vibration ..... 5 g in 3 axes @ 33.3 Hz
Total Error Band: -20°C to +85°C ..... ±0.6% F.S. typ. -40°C to +135°C ..... ±0.8% F.S. typ. (Values are typical. Higher accuracies are possible, consult factory.)	Connection Options ... Packard Wire Leads
Oper. Temp. .... -40°C to 135°C for Voltage Output -40°C to 100°C for 4-20 mA Output	Construction ..... Stainless steel Port fitting can be brass
Storage Temperature ..... -40°C to 150°C	Threads ..... 1/4" and 1/8" NPT 1/4" SAE Female Flare 3/8"-24 UNF M12 x 1.5, M10, M14 Others – Consult Factory
EMC ..... 200 V/m from 1 MHz to 1 GHz	Proof Pressure ..... 1.5x
Inputs ..... 5 Vdc or 6-32 Vdc Supply	Burst Pressure ..... 2500 psi minimum
Outputs ..... 0.5-4.5 V or 4-20 mA	Overall Dimensions ... Length: <2.25" 2.70" w/tube fitting
Dielectric Strength ..... 1800 Vac for 1 sec 1500 Vac for 30 sec	Diameter: <1.10"
Standard Pressure Ranges ..... 100, 150, 250, 500, 750 psi	
<i>RoHS and UL94 compliance pending</i>	

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