



# WATER PRESSURE SENSOR

116CP Series

# WORLD CLASS PERFORMANCE

Utilizing Sensata's industry leading ceramic capacitive technology, the 116CP is housed in a small and innovative plastic package ideal for boilers, pumps, and other light industrial applications.

The 116CP is offered in a wide range of configurations including various pressure ports, electrical outs and pressure ranges from 0-3 to 0-16 bar.

### **Features**

- Multiple port & Connector options
- High accuracy: +/-1.5%FS
- Small & compact size
- 100% automated calibration
- REACH/RoHS compliant

# **Applications**

- Boilers
- Heat pumps
- Residential booster pumps
- Lawn & Pool pumps
- Circulator pumps
- Pump controllers
- Food & Beverage equipment

# **Technical Specifications**

## **Pressure Ranges**

0-3 to 0-16bar

#### **Performance**

Electrical Connection RAST 2.5
Pressure Connection G3%, G1/4, quick connect
(See next page drawings)
Pressure Reference Sealed Gauge (1bar)
Total Error Band Accuracy +/-1.5%FS (typical)
Operating Temperature 2° to 90°C
Storage Temperature40° to 125°C

#### Electrical

Supply Voltage	5VDC or 8-30VDC
Output Voltage	0.5 to 3.5V
Supply Current	8.0mA
Output Current	5.0mA (max)
Output Load	10k0hm pull dowr
Output Response Time	<10ms
Overvoltage Protection	16V
Reverse Voltage	14V
Short Circuit Protected	Yes
EMC Conforms to EN	61326-2-3 for sensor
ESD	8kV/air, 4kV/direct

## **Physical**

Proof Pressure	2xFS (1)
Burst Pressure	3xFS (1)
Random Vibration	5G (2-2kHz)
Mechanical Shock	40G1/2 HL SINE
Drop (any Axis)	1m

### Agencies

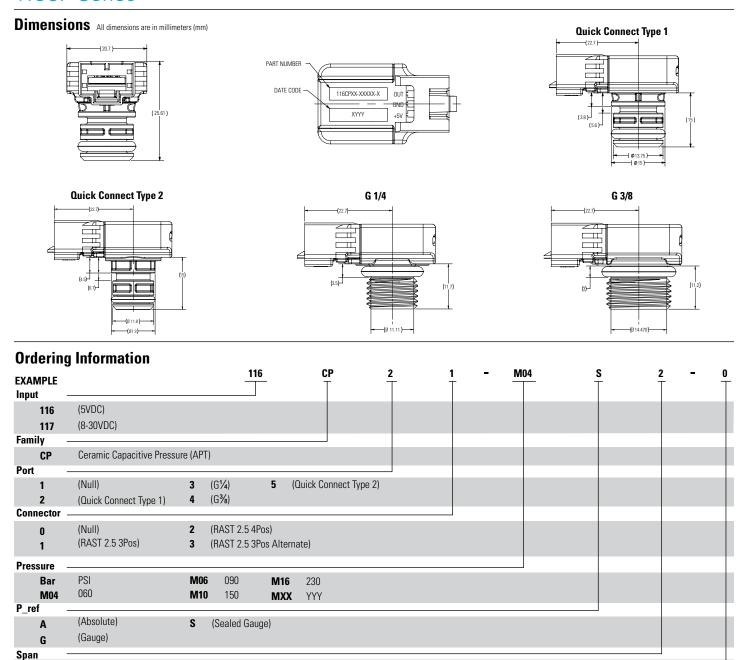
REACH RoHS compliant

#### Note

```
(1) FS (Pressure) = P_{max} - P_{min}
FS (Voltage) = Vout_{max} - Vout_{min}
```

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Special Requirement

0 or 50 (Application Dependent)1 (Custom)

(1.125-3.6V)

(0.5-3.5V)



## Americas

(0.5-4.5V)

(0.5-2.75V)

3

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5

(0.5-2.5V) (Custom)

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