

| 116CP SERIES

WATER PRESSURE SENSOR

Introduction

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



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	10kOhm pull down
Output Response Time	<10ms
Overvoltage Protection	16V
Reverse Voltage	-14V
Short Circuit Protected	Yes
EMC	Conforms to EN 61326-2-3 for sensors
ESD	8kV/air, 4kV/direct
Pressure Ranges	0-3 to 0-16bar

Physical

Proof Pressure	2xFS ⁽¹⁾
Burst Pressure	3xFS ⁽¹⁾
Random Vibration	5G (2-2kHz)
Mechanical Shock	40G½ HL SINE
Drop (any Axis)	1m

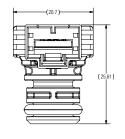
⁽¹⁾ FS (Pressure) = Pmax — Pmin FS (Voltage) = Voutmax - Voutmin

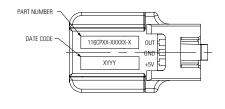
Performance

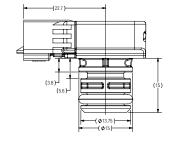
Electrical Connection	RAST 2.5
Pressure Connection	G¾, G¼, quick connect (See next page drawings)
Pressure Reference	Sealed Gauge (1bar)
Total Error Band Accuracy	+/-1.5%FS (typical)
Operating Temperature	2° to 90°C
Storage Temperature	-40° to 125°C

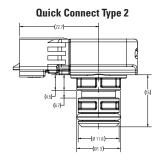


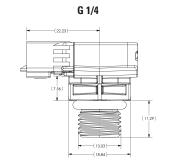
Dimensions in mm [Inch]

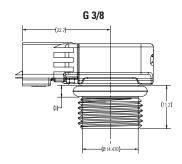














1 (Custom)

AGENCY APPROVALS & CERTIFICATIONS

REACH RoHS compliant CE

0 or 50 (Application Dependent)

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