



# CUSTOM SENSORS & TECHNOLOGY

A DIVISION OF CUSTOM SAMPLE SYSTEMS



## PROCESS PRESSURE SENSOR & TRANSMITTER REBUILDABLE & AUTOCLAVABLE

### WHEN SINGLE USE MEETS SUSTAINABILITY!

CST's new innovative rebuildable pressure sensor design brings sustainability to the forefront by eliminating the need to replace expensive traditional single-use sensors. The Process Pressure Sensor is designed to be cleaned, autoclaved and re-used for a minimum of five autoclave cycles and when it is time to service, simply replace the M12 cap assembly. The Process Pressure Sensor exceeds expectations by providing accurate and repeatable measurements from -10 to 100 psi.

### REUSABLE PROCESS PRESSURE SENSOR

CST is excited to introduce our new single-use sensor, designed to be cleaned, autoclaved, and reused in your R&D and product development projects. Our innovative pressure sensor features a durable stainless steel body and a replaceable M12 cap/PCB assembly that can withstand cleaning and autoclaving with a minimum of five times without degradation.

This design not only reduces your Single Use costs but also ensures reliable and accurate pressure readings ranging from -10 PSI to 100 PSI. The M12 replacement cap, which includes the sensor and PCB, can be easily swapped by removing two screws and replacing the M12 cap and sensor assembly while maintaining its performance through a minimum of five (5) autoclave cycles.

For your cGMP requirements, we offer a full range of innovative single-use pressure sensors with our patented pending designs in various hose barb and Tri-Clamp fittings. These sensors are designed without glue or epoxy, preventing any risk of contamination or process degradation. We also offer our new pressure transmitter that is available as a single or multichannel input including an output for your TMP (Transmembrane Pressure).



# GENERAL SPECIFICATIONS

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Pressure Range	-10 to 100 PSI
Accuracy for 0 to 50 PSI	±2%
Accuracy for 51 to 80 PSI	±2.5%
Accuracy for 81 to 100 PSI	±3%
Accuracy for -10 to 0 PSI	±4%
Operating Temperature	5°C to 40°C
Module Input Voltage	6 - 36 VDC
Sensor Input Voltage	6 VDC
Seal Type	USP Class VI O-Ring
Body Material	316SS or PEEK
Connector Type	M12 - 4 Pin
Connector Cap Material	Nylon 12, SLS Printed, ISO 109993 Material
Internal Sensor Material	Polycarbonate & Dielectric Gel
Assembly Criteria	Clean Hood Assembly, ISO Class 7
Pre-Assembly Cleaning	Detergent in DI then Alcohol Soak & Brush
Sterilization	Autoclave (Minimum 5x)
Packaging	PE Heat Sealed Bag 2x



## TRANSMITTER SPECIFICATIONS

**PT1 Dimensions:** 3.2" x 1.8" x 4.4"

**PT4 Dimensions:** 3.2" x 2.7" x 4.4"

**Sensor Inputs:** 1-4 Pressure Sensor, Transducer, or Load Cell Input

**Outputs:** 4-20 mA, Modbus (auto-detect baud rate), TMP

**Connector Types:** Phoenix Style, Connectors Provided

**Housing Material:** Cerakote Aluminum

**Indicator:** LED Indicator for Function & Sensor Connected Status

**Mounting Style:** DIN Rail Mount

**Display:** Optional Remote Color Touch screen display available in SS or AL

### Part Numbers:

PT1 0-100 PSI: PT1-000-010

PT4 0-100 PSI TMP: PT4-000-010

Other ranges available upon request

### Available Hose Barb Connections:

1/8" Hose Barb

1/4" Hose Barb

3/8" Hose Barb

1/2" Hose Barb

3/4" Hose Barb

### Available Sanitary Connections:

1/2" Sanitary

3/4" Sanitary

1" Sanitary

Custom Sizes Available

### Replacement Parts

M12 Cap and Sensor Assembly

### Electrical Connections

**Sensor Input:** M12

**Module:** M12

Patent Pending

Designed & Assembled in the USA

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