



CUSTOM SENSORS & TECHNOLOGY

A DIVISION OF CUSTOM SAMPLE SYSTEMS

SINGLE-USE PROCESS PRESSURE SENSOR & TRANSMITTER

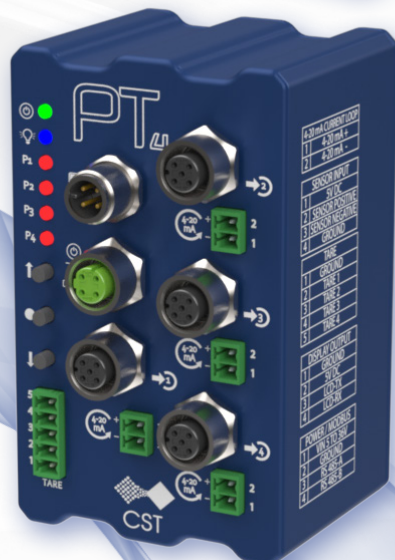
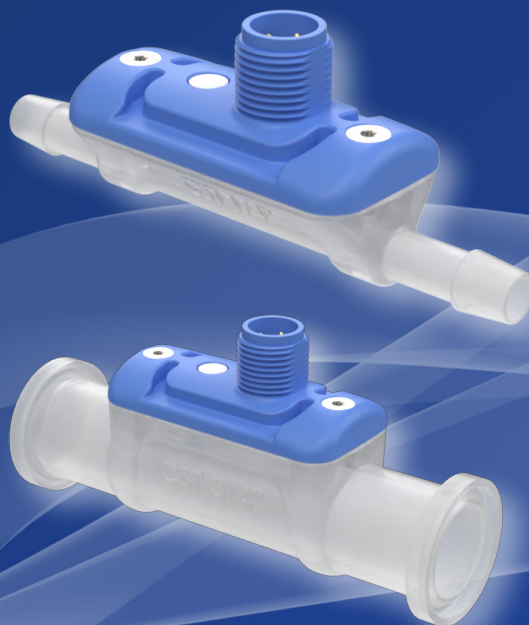


COMPLETE SINGLE-USE SOLUTIONS FOR BIOPROCESSING

Process Pressure Sensors are intended for measuring the dynamic and static pressures of liquids and gases for both single-use and continuous use bioprocessing applications including tangential flow filtration (TFF), bioreactor pressure monitoring, and depth filtration monitoring. A standard M12 connector integrates directly to our PT1 (single channel) and PT4 (four channel) transmitters that include 4-20 mA, Modbus RTU, TMP outputs, and optional remote display.

GENERAL SPECIFICATIONS

Pressure Range _____	-10 to 100 PSI
Accuracy for 0 - 50 PSI _____	±2%
Accuracy for 51 - 80 PSI _____	±2.5%
Accuracy for 81 - 100 PSI _____	±3%
Accuracy for -10 - 0 PSI _____	±4%
Oper. Temp Range _____	5°C - 40°C
Module Input Voltage _____	6 to 36 VDC
Sensor Input Voltage _____	6 VDC
Seal Type _____	Silicone USP Class VI O-Ring
Body Material _____	Polypropylene, Class VI
Connector Cap Material _____	Polycarbonate Class VI
Internal Sensor Material _____	Polycarbonate and Dielectric Gel
Assembly Criteria _____	ISO Class 7 Cleanroom
Sterilization _____	X-Ray or Gamma Compatible
Packaging _____	Standard Double Bag Pack of 10



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

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:

1/4" Hose Barb
3/8" Hose Barb
1/2" Hose Barb
3/4" Hose Barb

Available Sanitary Connections:

1/2" Sanitary
3/4" Sanitary

Electrical Connections

Sensor Input: M12
Module: M12

Regulatory and Compliance:

USP Class VI
ISO 10993-5
B&F
Bioburden
USP 661, 161, 88
Endotoxin USP 85

Patent Pending

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