

# FLOWPRESS™: SINGLE-USE PRESSURE SENSOR

The FlowPress™ single-use pressure sensor is designed for high-precision monitoring in a variety of bioprocess applications.

## RELIABLE. PRECISE. INTEGRATIVE.

Engineered to provide accurate pressure measurement up to 100 psi, this state-of-the-art sensor seamlessly integrates with your existing monitoring systems, ensuring compatibility, optimal performance and ease of use. Sensors are available with NIST certificates and are 100% tested for quality during production. Choose FlowPress™ for your pressure sensing needs and experience the difference in performance and convenience.

## APPLICATIONS:



### FILTRATION

Accurately monitor pressure during filtration to maintain process efficiency and product integrity.



### CHROMATOGRAPHY

Achieve superior separation and purification with precise pressure control in chromatography applications.



### RESEARCH AND DEVELOPMENT

Perfect for laboratory settings where reliable data is essential.



### CELL CULTURE & FERMENTATION

Ensure precise control and monitoring of pressure to optimize yield and quality for growth and product formation.



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## HIGH PRESSURE DURABILITY

Every FlowPress™ sensor is tested for quality and is capable of accurately measuring pressures up to 100 psi, making it ideal for demanding applications.



## SEAMLESS INTEGRATION:

Fully compatible with a range of process monitoring systems, including PendoTECH® PressureMAT®, allowing for straightforward integration into your existing setups.



## PRECISION AND ACCURACY

Provides reliable and accurate pressure readings with accuracy within  $\pm 2\%$ , ensuring the highest level of data integrity and reliability. NIST certificates are available as an option.



## SINGLE-USE CONVENIENCE

Designed for one-time use, this sensor eliminates the risk of cross-contamination, ensuring the highest levels of sterility and safety in your bioprocess workflows.



## USER-FRIENDLY DESIGN

Easy to install and operate, reducing setup time and increasing operational efficiency.



## COMPLIANCE AND QUALITY

Our sensor meets industry standards and regulatory requirements, giving you peace of mind.

SPECIFICATIONS	
Configurations	1/8" to 3/4" hose barbs, 3/4" and 1.5" TC flange
Operating Range	0 to 100 PSI
Material of Construction	Polysulfone
Sterilization	Gamma Irradiation/X-Ray up to 50 kGy
Manufacturing Environment	ISO Class 7 Cleanroom
Operating Temp	5°C to 40°C
Storage Temp	-35°C to 60°C
Shelf Life	5 Years
NIST Certificate Available	Yes
Broad Chemical Resistance	Yes, including caustic
Excitation Voltage	2 to 10 Volts (VDC)
Sensor Material	Polycarbonate; no Dielectric Gel
Sensor Output (Sensitivity)	0.195 mV/Volt/psi
ACCURACY	
From 0 to 30 PSI	+/- 2% of reading
From 31 to 80 PSI	+/- 4% of reading
From 81 to 100 PSI	+/- 5% of reading
From -10 to 0 PSI	+/- 4% of reading
REGULATORY COMPLIANCE	
USP <88>, Biological Reactivity	Meets
USP <788>, Particulate Matter in Injections	Meets
USP <85>, Bacterial Endotoxin	Meets
USP <661>, Plastic Packaging	Meets
ISO 10993-5, Cytotoxicity	Meets
Extractables	to USP 665
BSE/TSE Free	Meets
REACH	Meets
RoHS	Meets

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## SENSOR PART NUMBERS:

PART NUMBER	DESCRIPTION
F-FP-0125HB-15	FlowPress™, 1/8" HB, 15" Cable
F-FP-0375HB-15	FlowPress™, 3/8" HB, 15" Cable
F-FP-0750TC-15	FlowPress™, 3/4" TC, 15" Cable
F-FP-1500TC-15	FlowPress™, 1-1/2" TC, 15" Cable
F-FP-0125HB-15-N10	FlowPress™, 1/8" HB, 15" Cable, NIST Calibrated 0-10 psi
F-FP-0375HB-15-N10	FlowPress™, 3/8" HB, 15" Cable, NIST Calibrated 0-10 psi
F-FP-0750TC-15-N10	FlowPress™, 3/4" TC, 15" Cable, NIST Calibrated 0-10 psi
F-FP-1500TC-15-N10	FlowPress™, 1-1/2" TC, 15" Cable, NIST Calibrated 0-10 psi
F-FP-0125HB-15-N30	FlowPress™, 1/8" HB, 15" Cable, NIST Calibrated 0-30 psi
F-FP-0375HB-15-N30	FlowPress™, 3/8" HB, 15" Cable, NIST Calibrated 0-30 psi
F-FP-0750TC-15-N30	FlowPress™, 3/4" TC, 15" Cable, NIST Calibrated 0-30 psi
F-FP-1500TC-15-N30	FlowPress™, 1-1/2" TC, 15" Cable, NIST Calibrated 0-30 psi
F-FP-0125HB-15-N80	FlowPress™, 1/8" HB, 15" Cable, NIST Calibrated 0-80 psi
F-FP-0375HB-15-N80	FlowPress™, 3/8" HB, 15" Cable, NIST Calibrated 0-80 psi
F-FP-0750TC-15-N80	FlowPress™, 3/4" TC, 15" Cable, NIST Calibrated 0-80 psi
F-FP-1500TC-15-N80	FlowPress™, 1-1/2" TC, 15" Cable, NIST Calibrated 0-80 psi

## NIST CALIBRATED PRODUCTS AVAILABLE:

"-N10" covers low pressure applications. NIST Certified 0-10 psi in 1 psi increments.

"-N30" covers medium pressure applications. NIST Certified 0-30 psi in 5 psi increments.

"-N80" covers high pressure applications. NIST Certified 0-80 psi in 10 psi increments.

## CABLES AND ADAPTERS (REUSABLE):

PART NUMBER	DESCRIPTION
F-SC-RJ11M-PU	Sensor Cable, RJ11 Male to Pendotech/Utah, 200cm OAL
F-SC-RJ11M-DB15	Sensor Cable, RJ11 Male to DB15, 200cm OAL

## COMPENSATION CIRCUITS:

PART NUMBER	DESCRIPTION
F-CC-PMAT	Compensation Circuit for PMAT