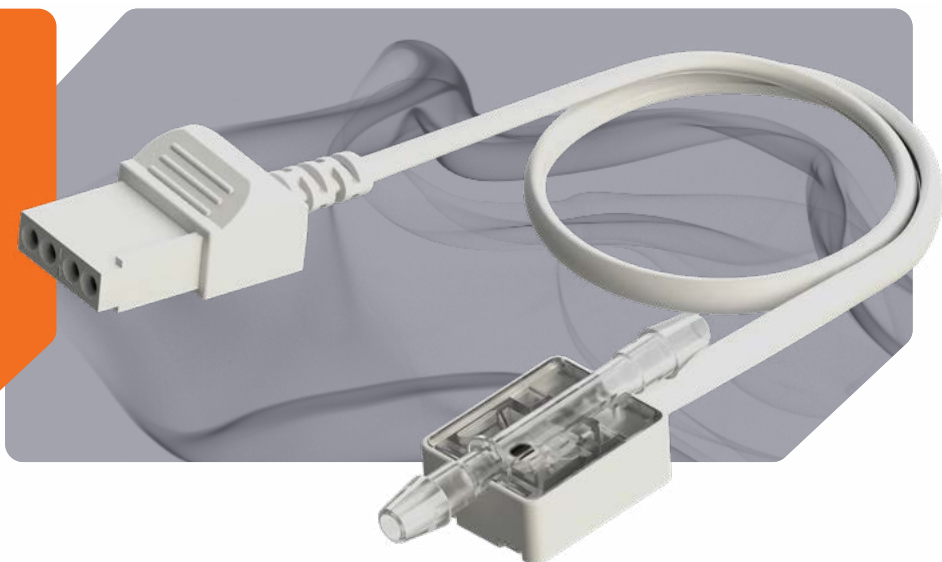




Bio-P-Sense™ Single-use Pressure Sensor for Bio Pharm Processes

Elcam Medical Single-Use Pressure Sensors measure the pressure of gases and liquids in bioprocesses. They deliver accurate, reliable and cost-effective monitoring across a wide range of bioprocess applications. The sensor integrates a high-performance pressure sensor chip with temperature compensation circuitry.

Engineered to deliver precise pressure control in bioprocess applications such as supporting optimal cell culture and fermentation conditions and to monitor filter differential pressure for early clogging detection and improved filtration performance in downstream processing.

Advantages – Ease of use

Full visibility of the flow path

Advantages – Reliability & Safety



100% leak testing in production



100% Pre calibration



State of the art molding and assembly processes



Highly automated production line, fully controlled by on-line testing

Advantages – customization

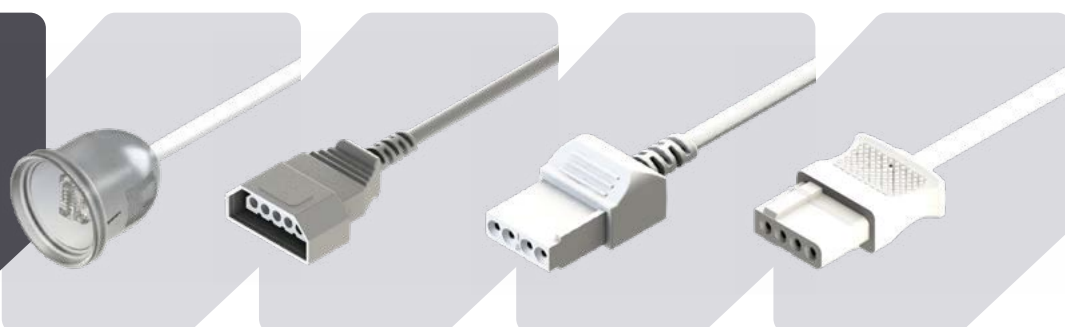
Flow Connections option:

- Female to male Luers (ISO 80369-7 Standard compliant)
- 1/8" Barb,
- 3/16" Barb

Applications

- Bioprocessing
- Bioreactor Monitoring
- Filtration
- Purification

Available connectors



Technical specification

Full Pressure Range	-11 to 75 psi	
Operating Pressure Range	-10 to 60 psi	
Accuracy	Positive Range • 0 to 6 psi • 6 to 30 psi • 30 to 50 psi • 50-60 psi Vacum Range • 0 to -7 psi • -7 to -10 psi	Accuracy • ±2% of reading • ±3% of reading • ±5% of reading • ±10% of reading • ±3% of reading • ±5% of reading
Operating temperature	Temperature range 4 – 40 °C	
Manufacturing environment	ISO 13485 certified facility, Class 8 clean room	
Sterilization	Gamma Irradiation up to 50 kGy & EtOx2	
Sensor Flow path materials	Medical Grade PC, Polysulfone or Tritan	
Regulatory & Bio Compatibility	• USP Class VI • USP 665/ BPOG • ISO 10993-5 • USP788	• REACH • RoHS • Extractables & Leachables • Cytotoxicity • ADCF
Input Impedance	1800Ω to 3200Ω	
Output Impedance	285Ω to 315Ω	
Excitation Voltage	2 to 10 volts DC	
Sensor Output	0.2584 mV/Volt/PSI	
Water proof	IPX5	
Shelf life	5 years	

Samples available. Soon to be commercially available

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Status: under development