

PRESSURE TRANSMITTER

FH4 Series Refrigeration Pressure Transmitter

A compact pressure transmitter for refrigeration and HVAC equipment, featuring a 17-4 PH stainless sensing diaphragm, anti-condensation construction, and extended pressure-cycle life.



PRESSURE RANGE	OUTPUT	PROTECTION
5 to 10,000 bar options	4-20 mA / 0-5 V / 0.5-4.5 V / 0-10 V	IP65 / IP67 by connection

PRODUCT OVERVIEW

The FH4 Series is designed for refrigeration circuits, compressors, environmental chambers, and related equipment exposed to wide temperatures and repeated pressure cycling. A MEMS sensing element, 17-4 PH stainless diaphragm, full-temperature compensation, and self-sealing construction provide stable output in compact OEM installations.

KEY FEATURES

- Refrigerant-compatible, anti-condensation construction
- 17-4 PH precipitation-hardened stainless-steel sensing diaphragm
- More than 10 million full-scale pressure cycles
- Integrated overload design with 2 x overpressure and 5 x burst rating
- Full-temperature compensation with <2 ms response time
- Multiple process, electrical, and analog-output configurations

TYPICAL APPLICATIONS

- Refrigeration and air-conditioning equipment
- Compressors and chillers
- Refrigerant pressure test equipment
- Steam sterilizers and temperature test chambers

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Pressure ranges	5, 10, 16, 20, 30, 40, 50, 100, 500, 1,000, or 10,000 bar
Pressure reference	Gauge
Overpressure / burst pressure	2 x FS / 5 x FS
Accuracy options	+/-0.5% FS or +/-0.25% FS
Output signals	4-20 mA, 0-5 V, 0.5-4.5 V low-power, or 0-10 V
Supply voltage	10-30 VDC
Response time	<2 ms
Long-term stability	<0.1% FS
Insulation resistance	>=50 Mohm at 250 VDC
Protection	Reverse-polarity and short-circuit protection
Operating temperature	-20 to +85 deg C; optional -40 to +125 deg C
Storage temperature	-40 to +125 deg C
Pressure-cycle life	>10 million full-scale cycles
Vibration	IEC 60068-2-6, 5-2,000 Hz, <=20 g
Wetted material	17-4 PH stainless steel
Housing	304 stainless steel
Process connections	G1/4, G1/2, 1/4 NPT, or 7/16-20 UNF male/female; custom options
Electrical connections	DIN 43650, AMP, or M12 x 1
Ingress protection	IP65; IP67 with M12 connection

Configuration note: Specifications and approvals can vary by pressure range, output, connection, and material selection. Confirm the exact ordering code and controlled specification with CASCED US before design release.

[View the current product page and request a quote at **cascad-us.com**](#)

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