

PRESSURE TRANSMITTER

5423 Series

Industrial Pressure Transmitter

A compact stainless-steel pressure transmitter for industrial automation, hydraulics, machinery, and process equipment, with configurable ranges, outputs, and connections.



PRESSURE RANGE	OUTPUT	PROTECTION
10 to 10,000 bar options	4-20 mA / multiple voltage and ratiometric options	IP54 / IP67 by connection

PRODUCT OVERVIEW

The 5423 Series uses a silicon piezoresistive sensing element and stainless-steel isolation diaphragm to measure gases and liquids compatible with the wetted materials. Computerized calibration, laser trimming, and temperature compensation support stable measurement across industrial and OEM installations.

KEY FEATURES

- Compact stainless-steel construction for industrial service
- Silicon piezoresistive sensing with stainless isolation diaphragm
- Multiple current, voltage, and ratiometric output options
- Gauge and absolute pressure configurations
- IEC vibration, shock, and EMC performance references
- Broad process-connection and electrical-termination options

TYPICAL APPLICATIONS

- Industrial automation
- Hydraulic and mobile machinery
- Metallurgical equipment
- Gas, water, and oil pressure measurement

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Pressure ranges	10, 16, 250, 400, 1,000, 2,000, 3,000, 4,000, 6,000, 7,000, 8,000, or 10,000 bar
Pressure reference	Gauge or absolute
Output signals	4-20 mA, 1-5 V, 0-4.5 V, 0.5-4.5 V, 0-5 V, or 0-10 V
Supply options	5 V, 12 V, or 7-36 VDC; output dependent
Accuracy options	+/-0.5%, +/-0.25%, +/-0.2%, or +/-0.1% FS, configuration dependent
Long-term stability	<= +/-0.2% FS typical per year
Insulation resistance	>=100 Mohm at 500 VDC
Temperature ranges	Compensated and operating limits vary by configuration, with options from -40 to +125 deg C
Vibration	IEC 60068-2-6, 5-2,000 Hz, <=20 g
Shock	IEC 60068-2-27, 50 g, 11 ms
EMC	IEC 61000-6-2 / -6-3 / -6-4 references
Media	Gas and liquid compatible with 304/316 stainless steel
Seal	FKM standard; custom options
Process connections	G1/4A, G1/2, 1/8 NPT, 1/4 NPT, M14 x 1.5, or custom
Electrical connections	DIN 43650, M12 x 1, or direct cable
Ingress protection	IP54 with DIN 43650; IP67 with M12 or direct cable

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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