

PRESSURE TRANSMITTER

DM852 Series

Sanitary Clamp Diaphragm Pressure Transmitter

A flush-diaphragm transmitter for sanitary, viscous, and clean-process media, with clamp connections, multiple diaphragm materials, and protected analog outputs.



PRESSURE RANGE	OUTPUT	PROTECTION
20 kPa to 100 MPa, configuration dependent	4-20 mA / 0.5-4.5 V / 1-5 V	IP65 / IP67 / IP68 by connection

PRODUCT OVERVIEW

The DM852 Series combines a flush sensing diaphragm with a welded stainless-steel structure for process applications where dead volume, viscosity, or cleanability matters. Wide-temperature compensation supports stable measurement, while multiple diaphragm, process-connection, and electrical-termination options enable application-specific configurations.

KEY FEATURES

- Flush diaphragm supports viscous, sanitary, and clean-process media
- Welded stainless-steel construction with strong corrosion resistance
- 316L stainless steel, 96% alumina ceramic, or tantalum diaphragm options
- Reverse-polarity, transient overcurrent, and overvoltage protection
- Wide-temperature zero and span compensation
- 2-inch and 2.5-inch sanitary clamp options

TYPICAL APPLICATIONS

- Food and beverage process equipment
- Water and wastewater systems
- Chemical and energy equipment
- Viscous-liquid and sanitary process skids

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Pressure range	0-20 kPa to 100 MPa, configuration dependent; standard technical table covers up to 4 MPa
Pressure reference	Gauge, absolute, or sealed gauge; minimum absolute range 70 kPa
Overpressure / burst pressure	1.5 x FS / 2 x FS
Accuracy	+/-0.25% FS
Output signals	4-20 mA; 0.5-4.5 V; or 1-5 V
Supply voltage	24 VDC nominal
Voltage-output load	>10 kohm
Long-term drift	<= +/-0.5% FS typical per year
Temperature drift	+/-0.03% FS/deg C for basic ranges <=100 kPa; +/-0.02% FS/deg C above 100 kPa
Operating / storage temperature	-20 to +60 deg C / -40 to +120 deg C
Media	Gas, oil, water, and viscous liquids compatible with 316 stainless steel
Diaphragm options	316L stainless steel, 96% alumina ceramic, or tantalum
Housing	Stainless steel 1Cr18Ni9Ti
Process connections	M20 x 1.5 male/female; 2-inch or 2.5-inch sanitary clamp; custom options
Electrical connections	DIN plug, M12 x 1, or direct cable
Ingress protection	IP65 with DIN plug; IP67 with M12; IP68 with 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 casced-us.com](#)

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