MODEL SELECTION PACKET | 2026-11-11 | REVISION 2

5424

Flush-Diaphragm Pressure Transmitter

Flush-diaphragm gauge-pressure transmitter for gas, oil, water and viscous liquids that do not corrode 316 stainless steel. The sensing face contacts the medium without a pressure-inlet hole.

Catalog-confirmed values

Standard pressure ranges	1, 8, 10, 16, 30, 50, 100, 250, 400, 500, 600, 1000 bar
Output options	4 to 20 mA; 1 to 5 V; 0 to 4.5 V; 0 to 5 V; 0 to 10 V options
Pressure reference	Gauge pressure
Process connections	G1; R1; G3/4; G1/2; M20 x 1.5; flange mounting; or custom
Standard supply	12-32 VDC
Overall accuracy	±0.5% FS
Wetted face / seals	316L stainless steel and fluororubber; FKM or custom seals depend on configuration
Compensated temperature	-20 to +85 deg C
Operating / media temperature	-30 to +85 deg C / -30 to +100 deg C
Protection	IP67 (M12 x 1 connector outlet); IP68 (cable outlet)

Overall accuracy is listed as ±0.5% FS. The ordering-page note separately refers to 0.5% linearity for standard products. The source does not define how these statements relate or supply full accuracy test conditions; obtain order-specific confirmation.

Ordering and service

Single-unit orders accepted. One-year warranty. Delivery: maximum 4 weeks from receipt of the agreed deposit. Actual warranty coverage and claim procedure follow the written quotation/order.

Selection reference only. This packet is not an installation drawing, a technical approval or an approved replacement. Confirm the ordered configuration in writing before purchase or installation.

ORDER-SPECIFIC ENGINEERING CONFIRMATION

Confirm the actual configuration

Specify pressure range, gauge reference, medium and seal compatibility, operating and transient pressure, required accuracy conditions, output, supply, load, process thread or flange, connector/pin assignment, dimensions and environmental limits.

Selection / ordering code	Available on appendix page 5 (catalog p.14): model, output, pressure, process and electrical connection fields. The shown code is a source example, not an approved order.
Dimensions / wiring	Original dimensional and connector-pin diagrams are on appendix page 5 (catalog p.14). Confirm the exact process connection, output and pin assignment for the order.
Optional configurations	Custom process connection / seal material; low-power and ratiometric output options; DIN, M12 or cable outlet. Detailed source options are retained in the appendix.

The ordering table includes range codes 0200 and 0800, while the standard-range specification table omits 200 and 800 bar. FKM notes refer to -25 deg C and -40 deg C versions on request. Low-power/ratiometric output supply requirements are not fully stated. Treat these differences as order-confirmation items; do not extend catalog limits.

Source and appendix map

Current English common-products catalog, website release v3 (2026-09-24): Pressure Transmitters section physical pages 5-7, full-catalog printed pages 12-14 / 244. Catalog ID HQ-COMMON-CATALOG-2026-09-23-001. Model details: common-catalog-product-details.json.

Source PDF: CASCED_Common_Products_2026_EN_01_Pressure_Transmitters.pdf

Packet pages 3-5 retain the current English catalog's overview, specification and dimension / electrical-connection / ordering pages unchanged. Original full-catalog page numbers remain visible.

The attached source pages are copied directly from the published English PDF, preserving their original page content. New summary text uses the controlled website model record and those source pages; it does not supply missing engineering data.

Request the controlled order drawing

Contact: info@casced-us.com | casced-us.com
Mailing Address: 1 Barston St, Syosset, NY 11791, United States

State the model, required configuration, quantity and application. Selection codes, dimensional examples and interface diagrams remain subject to confirmation for the specific order. No certification, signature or engineering approval is issued by this packet.

PRESSURE TRANSMITTERS

5424 Series Flush-Diaphragm Pressure Transmitter

Industrial Sensing & Control Solutions



5424 Series Flush-Diaphragm Pressure Transmitters

Key features

• Compact, all-stainless-steel construction; IP67 housing protection.
• Wetted materials are 316L stainless steel and fluororubber, with good wear and corrosion resistance.
• General-purpose and cavity-free process connections are available. The diaphragm directly contacts the medium, allowing measurement of fluids with large particles or high viscosity without blockage.
• Permissible pressure overload of 2~6 times enables resistance to strong pressure surges.

Overview

The medium pressure acts directly on the flush diaphragm, producing a small displacement proportional to pressure and changing the transmitter resistance. Electronic circuitry detects this change and converts it into a corresponding standard output signal. The flush-diaphragm transmitter uses diaphragm isolation with no pressure inlet hole at the sensing face, preventing blockage by viscous media during measurement. Its integrated construction is suitable for pressure measurement and control in chemical coatings, paints, slurries, asphalt, crude oil and other viscous media.

Technical specifications

Input specifications

Standard pressure ranges	1 bar	8 bar	10bar	16 bar	30bar	50bar	100bar	250bar	400bar	500bar	600bar	1000bar
Overpressure: DIN EN 60770-1	1.5 bar	12bar	15bar	24 bar	60bar	100bar	200bar	500bar	800bar	1000bar	1200bar	2000bar
Burst pressure: DIN EN 60770-1	3 bar	24bar	30bar	48 bar	90bar	150bar	500bar	1250bar	2000bar	2500bar	3000bar	>4000bar

Pressure reference	Gauge pressure
Process connection	G1; R1; G3/4; G1/2; M20×1.5; flange mounting; or custom
Measured media	Gas, oil, water and viscous liquids (media must not corrode 316 stainless steel)
Wetted materials	Mechanical parts: stainless steel; seals: FKM or custom to customer requirements

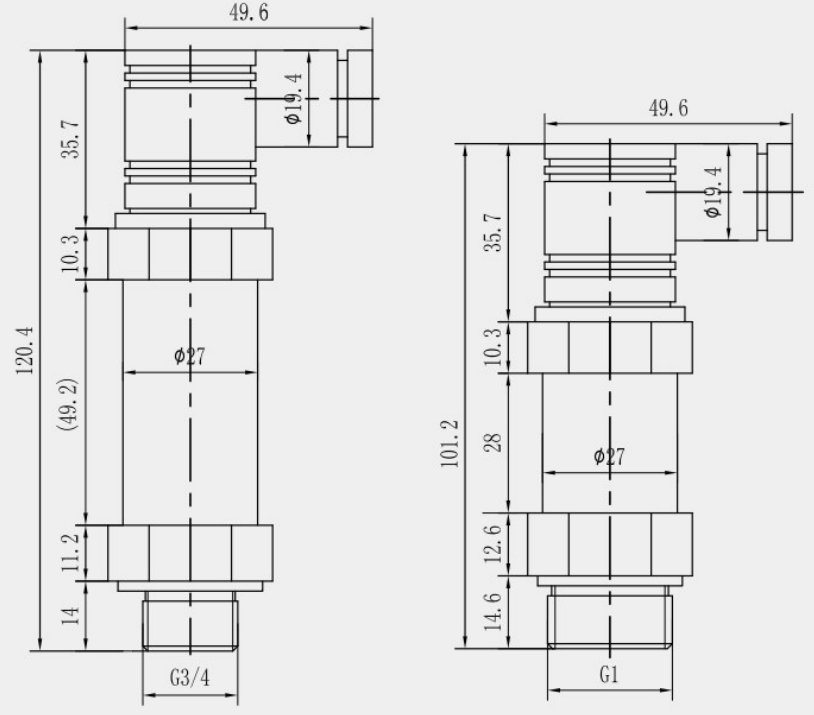
Output specifications

Output signal	4~20 mA; 1~5 V; 0~4.5 V; 0.5~4.5 V (low-power version also available for battery operation); 0~5 V; 0~10 V
Operating voltage	12~32VDC
Overall accuracy	± 0.5% FS
Insulation resistance	≥100MΩ (100VDC)
Long-term drift	≤ ± 0.2 % FS typ. / year

Environmental conditions

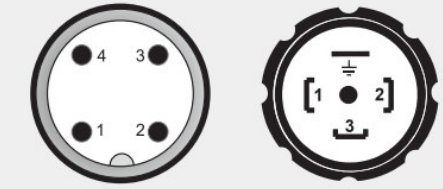
Compensated temp. range	-20°C ~ +85°C
Operating temperature range	-30°C ~ +85°C
Storage temperature range	-40°C ~ +120°C
Media temperature range	-30°C ~ +100°C
Vibration resistance	IEC 60068-2-6 (5~2000Hz, ≤20g)
Shock resistance	IEC 60068-2-27(20g,11ms)
EMC immunity	IEC 61000-6-2/3/4
IP rating	IP67 (M12×1 connector outlet); IP68 (cable outlet)

Dimensions



Notes:
Reverse-polarity, supply overvoltage, overload and short-circuit protection.
1) FKM seals for -25°C; -40°C versions on request.
2) Other seal materials on request.
Remarks:
Standard products: 12~32 VDC supply, gauge pressure and 0.5% linearity.
Customization to customer specifications is available.

Electrical connection



Pin	M12x1	Hirschmann connector
1	Signal+	Signal+
2	Signal-	Signal-
3	n,c	n,c
4	n,c	⏚

Ordering information

5 4 2 4 C 0250 05 G

Output signal

C= 4~20mA; P=0~4.5V; R=0~5V;
H= 1~5V; U=0~10V;
N = 0.5~5 V (low power, for battery operation);
T = 0.5~4.5 V (ratiometric output)

Pressure range (Bar)

0001; 0008; 0010; 0016; 0030; 0050;0100;
0200; 0250; 0400; 0500; 0600;0800;1000

Process connection

03=G1/2"; 05=G1"; 06=R1";
07= G3/4"; 09 = Flange mounting;
30=M20x1.5; 11 = Custom

Electrical connection

G = Hirschmann connector (DIN 43650A); E = M12×1P (4-pin);
F = Cable