

Kromschroeder DG pressure switches for gas

For monitoring gas and air pressures, also for biologically produced methane, with hand wheel for switching point adjustment, can be used as "special-design pressure switch", EU certified, AGA, EAC approved, RoHS compliant

Overview



DG Pressures Switches are for monitoring positive gas- and air-pressure, and for negative and differential air-pressures. The DG version is the European Version and the DG..T is the US version. Both versions offer switching point adjustment via setting dial, are silicon free, and operate with the following media: Gas, air, flue gasses for positive pressure; Air and flue gasses for negative/differential pressure. For available accessories, see technical documentation.

Model DG: (European Version)

- EU certified, AGA, EAC approved, RoHS compliant
- Range: 0.4 to 500 mbar (0.16 to 200 WC)
- Pneumatic Connections: Internal Rp 1/8 2x, Rp 1/4 2x
- Silver contacts, 24-250V AC, 0.05-5A
- Gold contacts, 5-250V AC, 0.01-5A
- Electrical connection:
 - Screw terminals, M16x1.5 cable gland
 - 4-Pin plug and socket

Model DG..T: (US Version)

- UL Listed, FM Approved
- Range: 0.2 to 200 WC
- Pneumatic Connections: Internal Rp 1/4 NPT, 1/8 NPT
- Silver contacts, max 240V AC, 5A
- Gold contacts, max 30V AC/DC, 0.05A
- Electrical connection:
 - Screw terminals, M16x1.5 cable gland
 - Screw terminals, 1/2 NPT cable conduit
 - 4-Pin plug and socket
- Optional Locking/manual reset

More Information:

- [Technical Information for DG](#)
- [Find products in ProFi for DG](#)
- [Find products in ProFi for DG..I, Negative pressure](#)
- [Find products in ProFi for DG..S, Oxygen and ammonia pressures](#)
- [Find spare parts in PartDetective for DG](#)



Specifications

INSTALLATION & MOUNTING SPECIFICATIONS

Installation Orientation

- Vertical, horizontal, or inverted (switching point must be verified)

CONNECTIONS & INTERFACES

Electrical Connections

- Screw terminals, M16 cable gland, 1/2 in NPT conduit, 4-pin plug/socket

Mechanical Connection

- Rp 1/4 in, Rp 1/8 in (DG); 1/4 in NPT/1/8 in NPT (DG..T)

ELECTRICAL SPECIFICATIONS

Maintenance Interval

- At least once per year (twice per year for biogas)

APPLICATIONS & COMPATIBILITY

Media Compatibility

- Natural Gas, Town Gas, LPG (gaseous), Flue Gas, Biogas ($\leq 0.1\%$ H₂S), Air

Hazardous Area Use

- Suitable for Zone 1 and 2 with isolating amplifier; Zone 2 without amplifier

Applications

- Low/High Gas Pressure Monitoring, Fan Monitoring, Filter Monitoring, Leak Tightness Checks, Differential Pressure Monitoring

TEMPERATURE CONTROL/MEASUREMENT

Temperature Rating

- -15 to +60 deg C (others)
- -20 to +80 deg C (DG, DG..U, DG..I)
- -40 to +60 deg C (DG..T)

MATERIAL SPECIFICATIONS

Diaphragm Material

- NBR (standard), IIR (DG..S, DG..ST)

Material

- PBT plastic (glass fiber reinforced), aluminum lower section

OPERATING LIMITS, DURABILITY & LIFECYCLE

Designed Lifetime

- Up to 10 years or specified switching cycles (model-dependent)

SAFETY, PROTECTION & RELIABILITY

Protection Class

- IP54/IP65 (DG), NEMA 4 (DG..T)

Reset Options

- Manual reset for lock-off models



PRODUCT OVERVIEW & CLASSIFICATION

Primary Function

- Monitoring and switching of gas and air pressures

PROCESSING & PERFORMANCE METRICS

Adjusting Range

- Approximately 0.5 up to 500 mbar (model-dependent)

OVERVIEW

Product Type

- Diaphragm pressure switch for gas and air

STANDARDS & CERTIFICATIONS

Approvals

- EN 1854, Gas Appliances Regulation (EU) 2016/426, CE (EN 1854), SIL 3 (EN 61508), PL e (ISO 13849), FM, UL, AGA Approved (except DG..S), Eurasian Customs Union

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