

intrinsically safe pressure transmitter, ATEX version, accuracy 0,5 %



II 1 GD Ex ia IIC Ex ia IIIC
II 1/2 GD Ex ia IIC Ex ia IIIC

Certificate :
0425 ATEX 2635

8.X18

Ignition protection Ex ia as per EN 60079-0, EN 60079-11, EN 60079-26, atmosphere type GD :

- category 1 ⁽¹⁾, marking II 1 GD Ex ia IIC Ex ia IIIC (cod. **1GD**);
- category 1/2, marking II 1/2 GD Ex ia IIC Ex ia IIIC (cod. **2GD**).

Temperature classes ⁽²⁾,

- T6 (T85°C)Ta ≤ 60 °C (cod. **T6B**);
- T5 (T100°C)Ta ≤ 80 °C (cod. **T5B**);
- T4 (T135°C)Ta ≤ 100 °C (cod. **T4B**).

Measuring ranges: 0...1/0...600 bar, relative; -1...0/-1...+24 bar, relative; 0...1/0...25 bar, absolute.

Output signal: 4...20 mA (cod. **1**).

Non-linearity (BFSL): ≤ ± 0,25 % of the range, according to IEC 61298-2.

Non-repeatability: ≤ 0,1 % of the range, according to IEC 61298-2.

Accuracy: ≤ ± 0,5% of the range ⁽³⁾.

Thermal drift: between 0 and 80°C, 1% of span; 2,5% of span, max ⁽⁴⁾.

Long term drift: ≤ 0,1 % of span.

Zero and span adjustment: ± 10 % span typical.

Stocking temperature: -30...+85 °C.

Response time: <4 ms (measuring); <150 ms (switching on).

Emission and immunity: according to EN 61326, (group 1 - class B; industrial applications).

Vibration resistance: 20g (10...2000 Hz, according to IEC 60068-2-6).

Shock resistance: 40g (6 ms, according to IEC 60068-2-27).

Sensor: ceramic in Al₂O₃.

Case: in AISI 316L, vented up to 16 bar.

Protection degree: IP 65 according to IEC 60529 ⁽⁵⁾.

Process connection: in AISI 316L, hole ø 2,5 mm (with restrictor ø 0,7 mm for measuring ranges ≥ 60 bar).

Weight: 0,20 kg

(1) available with IP 68 metallic cable gland only;

(2) "Tp" : fluid process temperature ≤ "Ta" : ambient temperature; "Tp" & "Ta" ≥ -20 °C.

(3) max measuring error according to IEC 61298-2, including non-linearity and hysteresis (limit-point calibration and reference conditions according to IEC 61298-1); accuracy ≤ ± 0,75% of span for measuring ranges 0...1 bar and 0...600 bar.

(4) + 0,5% of span for measuring range 1 bar

(5) with properly assembled electric connection

Ranges bar, relative	Overpressure bar, relative
0...1	5
0...1,6	5
0...2,5	5
0...4	8
0...6	12
0...10	20
0...16	32
0...25	50
0...40	80
0...60	120
0...100	200
0...160	320
0...250	500
0...400	600
0...600	800

Other ranges available on demand. Units of measurement available in psi, MPa, kPa too.

Compliance to requirements of directives: ATEX 2014/34/EU - EMC 2014/30/EU - PED 2014/68/EU - RoHS 2011/65/CE

