

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



II 1 G Ex ia IIC Ex ia IIIC

Certificate :
0425 ATEX 2635

8.XLV

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

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

Temperature classes ⁽¹⁾,

-T6 (T85°C)Ta ≤ 60 °C (**cod. T6B**).

Measuring ranges: 0...1/0...25 bar, relative.

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

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

Non-repeatability: ≤ 0,15 % of the range, according to IEC 61298-2.

Accuracy: ≤ ± 0,5% of the range ⁽²⁾.

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

Long term drift: ≤ 0,2 % of span.

Stocking temperature: -10...+60 °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: piezoresistive cell for pressure ranges < 1 bar;
ceramic cell for pressure ranges ≥ 1 bar.

Filling fluid of piezoresistive cell: silicone oil.

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

Sensor gasket: VITON (**Cod. FPM**).

Electric connection: polyurethane cable, compensated.

Protection: submersible.

Weight:

for pressure ranges 1 bar = 0,28 kg;

for pressure ranges ≥ 0,6 bar = 0,22 kg.

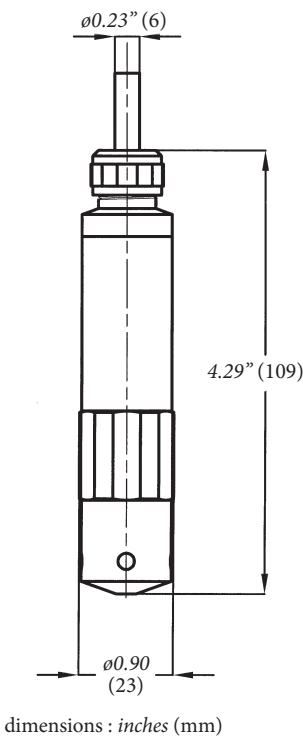
Ranges relative (1)
0...0,1/0...≤ 0,6
0...> 0,6/0...< 1
0...1/0...2,5
0...4
0...6/0...10
0...16
0...25

(1) Other unit of measurement and intermediate ranges, are available, as requested by customer.

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

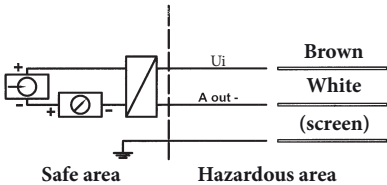
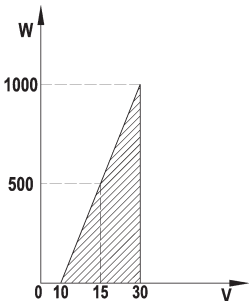
(2) max measuring error according to IEC 61298-2, including non-linearity and hysteresis
(limit-point calibration and reference conditions according to IEC 61298-1)

Compliance to requirements of directives: ATEX 94/9/EC - EMC 2004/108/EC - PED 97/23/EC - RoHS 2011/65/EC



Electrical features	
N. of wires	2
Load (Ohm)	$R_L \leq (U_i - 10) / 0,02$
Supply (Ui)	10...30 Vdc
Max current (Ii)	≤ 100 mA
Max power (Pi)	1,0 W
Capacitance (Ci)	19 nF
Inductivity (Li)	0 mH

Load Resistance



“HOW TO ORDER” SEQUENCE

Section / Model / Range / Output signal / Classification / Temperature / Cable type / Gasket
8 XLV 1 1GD T6B I FPM

