

- ✓ - **Non-linearity:** 0,5%.
- ✓ - **Calibration:** digital, traceable.
- ✓ - **EMC emission and immunity:** as per EN 61326..
- ✓ - **Working temperature:** from -25 to +85°C.



Compliance to requirements of directives: EMC 2004/108/CE - PED 97/23/CE - RoHS 2011/65/CE

The ST1 Standard model is an electronic transmitter with ceramic sensor for air, industrial, technical gases and water and oil, designed to be installed in gas distribution plants, on bottles, on refrigerators, on compressors, on vacuum pumps and hydraulics and water high pressure plants. It is ideally suited to be used in the industry in general, in the gas stocking or machines production, in light or heavy pneumatics industry, in the refrigeration industry, in welding and vacuum.

## 8.ST1 - Standard Model

**Ranges:** 0...1/0...600 bar, relative;  
-1...0/-1...+24 bar, relative.

**Accuracy:**  $\leq \pm 1,0\%$  of the range<sup>(1)</sup>.

**Non-linearity (BFSL):**  $\leq \pm 0,5\%$  of the range, according to EN 61298-2.

**Non-repeatability:**  $\leq 0,1\%$  of the range, according to EN 61298-2.

**Output signal deviation of zero:**  
 $\leq \pm 0,5\%$  of span, typical;  $\leq \pm 0,8\%$  of span, max.

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

**Long term drift:**  $\leq 0,2\%$  of span, according to EN 61298-2.

**Process fluid temperature, ambient and stocking temperature:**  
-25...+85 °C (see seals table on pag.2).

**Output signals:** 4...20 mA, 0...5 Vcc, 0...10 Vcc, 1...5 Vcc, 0,5...4,5 Ratiometric Vcc.

**Response time:** <4 ms.

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

**Process connection:** in AISI 316L, hole  $\varnothing$  2,5 mm.

**Sensor:** ceramic in Al<sub>2</sub>O<sub>3</sub>.

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

**Electric connection:** EN 175301-803 Form A,  
cable output  $\varnothing$  4...6 mm.

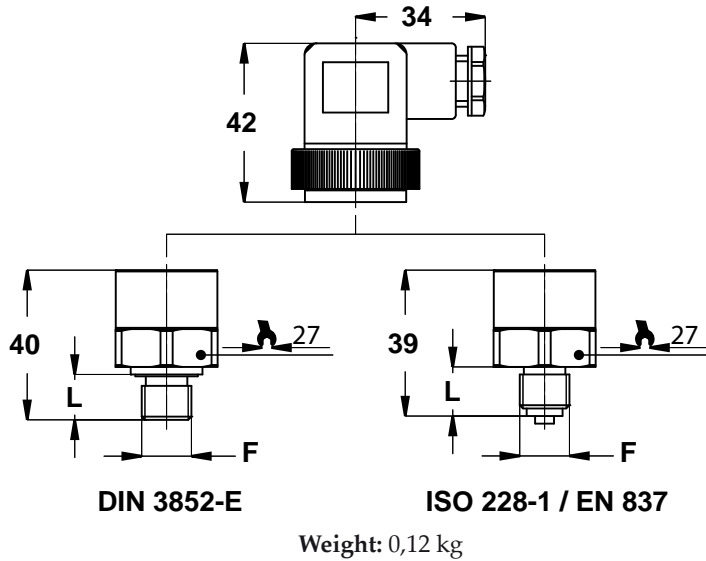
**Protection degree:** IP 65 according to EN 60529/IEC 529 <sup>(2)</sup>.

Ranges bar, relative	Overpressure bar, relative
0...1/0...1,6/0...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.

(1) Including non-linearity, hysteresis, non-repeatability and output signal deviation of zero at the reference conditions described in standard EN 61298-1.

(2) with properly assembled electric connection .

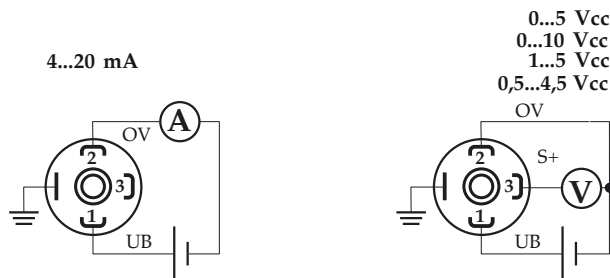


F <sup>(1)</sup>	L (mm)
<b>2DM</b> - G 1/4 A DIN 3852-E <sup>(2)</sup>	13
<b>21M</b> - G 1/4 A	13
<b>23M</b> - 1/4-18 NPT	13
<b>41M</b> - G 1/2 A	20
<b>43M</b> - 1/2-18 NPT	20

(1) torque 20...30 Nm  
(2) for pressures up to 400 bar

Output signal	4...20 mA	0...5 Vcc	0...10 Vcc	1...5 Vcc	0,5...4,5 Vcc ratiometric - R
N. of wires	2	3	3	3	3
Load max (Ohm)	$R_L \leq (V_{in}-8)/0,02$	$R_L \geq 5 K\Omega$	$R_L \geq 10 K\Omega$	$R_L \geq 5 K\Omega$	$R_L \geq 4,5 K\Omega$
Supply: +Vin (Vcc)	8...30	8...30	14...30	8...30	5 ±10%
Absorbed current (mA)	< 25	< 10	< 10	< 10	< 10

All output signals are provided of protection against short circuit and polarity inversion. Insulation tension 500 Vcc.



OPTIONS

<b>CRP</b> - CR gasket for sensor, for ranges ≤ 100 bar; process fluid temperature : -25...+85°C
<b>EPD</b> - EPDM gasket for sensor, for ranges ≤ 100 bar; process fluid temperature : -25...+85°C
<b>NBR</b> - NBR gasket for sensor; process fluid temperature : -25...+85°C
<b>FPM</b> - VITON gasket for sensor; process fluid temperature : -20...+85°C
<b>C01</b> - Calibration certificate
<b>VS3</b> - Model for hydraulics with restrictor ø 0,3 mm

“HOW TO ORDER” SEQUENCE

Section	Model	Range	Process connection	Output signal	Gasket	Options
8	ST1	21M		1	FPM	CRP..VS3
		2DM		4	CRP	
		23M		5	EPD	
		41M		8	NBR	
		43M		R		