

# Datasheet

## Pressure Transmitter EP300 - Economy

### Introduction

Using a silicon piezoresistive sensor, EP300 converts measured pressure to 4...20mA / 0...5V / 1...5V / 0...10V as output. With various process connection and output, EP300 is easy to install and to be integrated into your existing system.



### Characteristics

Measuring range up to 800 bar

Various output

Accuracy up to 0.25% of F.S.

Stainless steel wetted parts

Optional corrosive resistance model available

### Applications

Hydraulics and pneumatics

Process automation

Pump and compressor

Test equipment

Machinery manufacturing

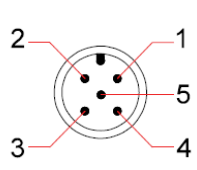
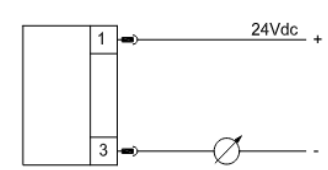
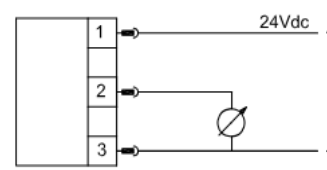
## Specifications

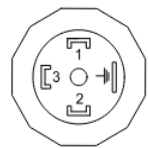
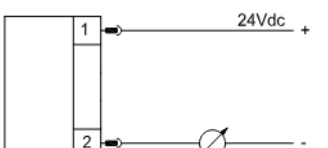
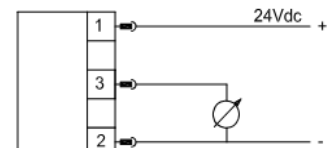
Measuring range	See measuring range for details
Output	4...20mA 0...5V / 1...5V / 0...10V
Material	Wetted parts: SS 304 / SS316L Housing: SS 304
Power supply	10...30 VDC for current output models 14...30 VDC for voltage output models
Current consumption	2-wire: Same as output (4...20mA) 3-wire: ≤ 22mA
Load(Ω)	2-wire 4...20mA output: Load(Ω) $RA \leq (5-10)V / 0.02A$ 3-wire 0...5V output: Load(Ω) $RA \geq 5K$
Linearity	≤ 0.25% of F.S.
Accuracy	0.5% of F.S. 0.25% of F.S.
Stability(Drift/Year)	≤ ±0.2% of F.S.
Temperature	Medium: -40...85°C Ambient: -20...85°C
Electrical connection	M12 x 1 plug Solenoid valve plug
Protection class	IP67 (M12 x 1 plug) IP65 (Solenoid valve plug)

## Technical data

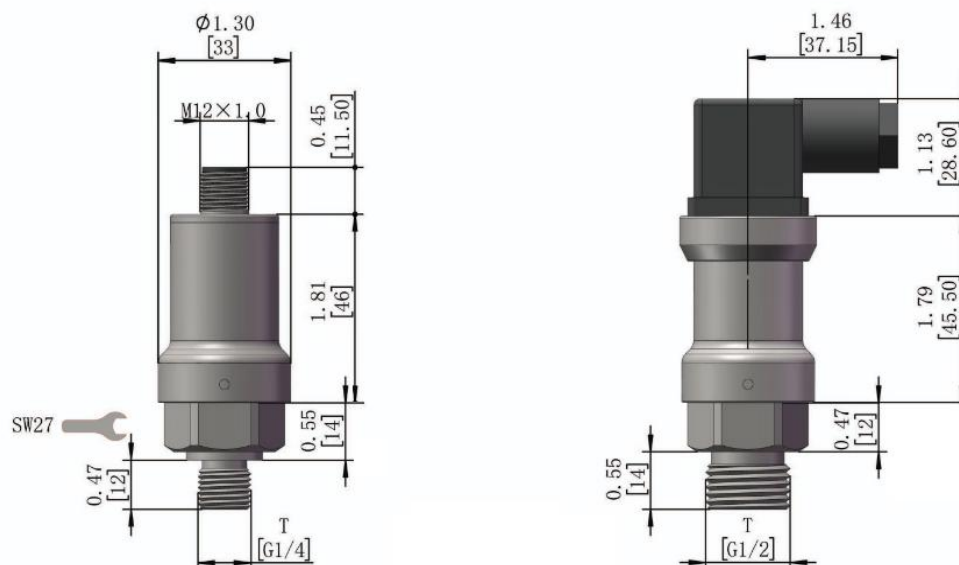
Measuring range (bar)	< 0.1	1	2	5	10	16	25	60	100	160	250	400	≥ 600
Overload pressure (bar)	x 2		x 5			x 3			x 2		x 1.5		x 1.3
Burst pressure (bar)	x 3		x 6			x 4			x 3		x 2		x 1.6

## Wiring

M12 plug	2-wire	3-wire												
 <table><tr><th>Pin</th><th>Color</th><th>Signal</th></tr><tr><td>1</td><td>Brown</td><td>U+</td></tr><tr><td>2</td><td>White</td><td>Output *</td></tr><tr><td>3</td><td>Blue</td><td>U-</td></tr></table> <p>* For 3-wire only</p>	Pin	Color	Signal	1	Brown	U+	2	White	Output *	3	Blue	U-		
Pin	Color	Signal												
1	Brown	U+												
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Solenoid valve plug	2-wire	3-wire								
 <table><tr><th>Pin</th><th>Signal</th></tr><tr><td>1</td><td>U+</td></tr><tr><td>3</td><td>Output *</td></tr><tr><td>2</td><td>U-</td></tr></table> <p>* For 3-wire only</p>	Pin	Signal	1	U+	3	Output *	2	U-		
Pin	Signal									
1	U+									
3	Output *									
2	U-									

## Dimensions in mm



## Measuring range code

Code	Gauge Pressure	
	psi	bar
NB1	-14.5...14.5	-1...1
NB04	-14.5...58	0...4
NB6	-14.5...87	0...6
NB10	-14.5...145	0...10
NB16	-14.5...230	0...16
NB25	-14.5...360	0...25
GB0.25	0...3.6	0...0.25
GB0.5	0...7.2	0...0.5
GB1	0...14.5	0...1
GB4	0...58	0...4
GB6	0...87	0...6
GB10	0...145	0...10
GB16	0...230	0...16
GB25	0...360	0...25
GB40	0...720	0...50
GB60	0...870	0...60
GB100	0...1450	0...100
GB160	0...2000	0...160
GB250	0...3600	0...250
GB400	0...5800	0...400
GB600	0...8700	0...600
GB800	0...11600	0...800

Code	Absolute Pressure	
	psi	bar
AB1	0...14.5	0...1
AB2	0...29	0...2
AB4	0...58	0...4
AB6	0...87	0...6
AB10	0...145	0...10
AB16	0...230	0...16
AB25	0...360	0...25
AB50	0...720	0...50

### Note:

Customization on request for measuring range not listed above:

GB20 for gauge positive pressure 0...10 bar / 0...145 psi;

NB1 for gauge negative pressure -1...1 bar / -14.5...14.5 psi;

AB10 for absolute pressure 0...10 bar / 0...145 psi.

## Order Code

Example: EP300-GB1A4CSG12M

### 1. Model

EP300- Economy pressure transmitter

### 2. Measuring range

GB1 Gauge pressure 0...14.5 psi / 0...1bar  
Please select a code from measuring range table above

### 3 Output

A4 4...20mA (2-wire / 3-wire)  
V5 0...5V (3-wire)  
V1 1...5V (3-wire)  
V10 0...10V (3-wire)  
Other output on request

### 4. Accuracy

B 0.25%  
C 0.5%

### 5. Wetted part material

S Stainless steel 304  
L Stainless steel 316L

### 6. Process connection

G12 G1/2" male thread (standard)  
G14 G1/4" male thread  
N12 NPT1/2" male thread  
N14 NPT1/4" male thread  
M20 M20 x 1.5" male thread  
U716 7/16" - 20 UNF  
U38 3/8" - 24 UNF  
Other connection on request

### 7. Electrical connection

S Solenoid plug  
M M12 x 1 plug

## Accessory - power/signal cable with socket

### 1. Connecting cable with socket

ET02- 2-pin M12 x 1 connecting cable with socket

### 2. Material

PU Material: PUR

### 3. Length

02 6.5ft / 2m (default)  
05 16.5ft / 5m

### 4. Type

R Regular cable  
S Shielded cable

### 5. Connector

G Straight socket  
W Angled socket



## Accessory - wirable plug

### 1. Wirable plug

ST05 5-pin M12 x 1 wirable plug

