

Datasheet

Pressure Transmitter EP100 - Economy

Introduction

EP100 measures and converts the pressure into industry-standard signal. As an economy pressure transmitter, EP100 can be used in a wide range of applications, such as cooling system, refrigeration, industrial gases, food and beverage, mobile machinery, power plant and more.



Characteristics

Compact design for limited mounting space

Measuring range up to 10000 psi / 700 bar

Gauge / absolute pressure

High reliability

High repeatability

Applications

Semiconductor

Hydraulic and lubrication system

Oil field

Power plant

Pressure control system

Specifications

Measuring range	See measuring range code below for details.
Over-pressure	2 x full span
Accuracy	0.2%, 0.5%
Linearity	0.2%
Repeatability	≤0.075 of full span
Stability	Less than 0.1% of full span / year
Temperature effect	< 0.01% of full span / °C
Response time	100ms
Power supply	24 VDC
Signal output	4...20mA
Load	≤(UB-10)V/ 0.02A
Wiring protection	Reverse polarity, Overvoltage
Temperature compensation	14...176°F / -10...80°C
Medium temperature	-4...176°F / -20...80°C
Storage temperature	-40...257°F / -40...125°C
Protection class	IP65
Housing material	304 stainless steel
Wetted parts material	304 stainless steel 316L stainless steel
Sealing material	Fluorocarbon Rubber
Weight	0.23lb / 0.1kg
Electrical connection	Hirschmann plug M12 x 1

Measuring range code

Code	Gauge Pressure	
	psi	bar
NB0.2	-2.9...5 psi	-200...200 mbar
NB0.35	-5...5 psi	-350...350 mbar
NB0.7	-10...10 psi	-700...700 mbar
NB1	-14.5...14.5 psi	-1...1 bar
GB0.2	0...2.9 psi	0...200 mbar
GB0.35	0...5 psi	0...350 mbar
GB0.7	0...10 psi	0...700 mbar
GB1	0...14.5 psi	0...1 bar
GB2	0...29 psi	0...2 bar
GB3.5	0...50 psi	0...3.5 bar
GB7	0...100 psi	0...7 bar
GB10	0...145 psi	0...10 bar
GB20	0...290 psi	0...20 bar
GB35	0...500 psi	0...35 bar
GB70	0...1000 psi	0...70 bar
GB100	0...1450 psi	0...100 bar
GB200	0...2900 psi	0...200 bar
GB350	0...5000 psi	0...350 bar
GB700	0...10000 psi	0...700 bar

Code	Absolute Pressure	
	psi	bar
AB0.2	0...2.9 psi	0...200 mbar
AB0.35	0...5 psi	0...350 mbar
AB0.7	0...10 psi	0...700 mbar
AB1	0...14.5 psi	0...1 bar
AB2	0...29 psi	0...2 bar
AB3.5	0...50 psi	0...3.5 bar
AB7	0...100 psi	0...7 bar
AB10	0...145 psi	0...10 bar
AB20	0...290 psi	0...20 bar
AB35	0...500 psi	0...35 bar
AB70	0...1000 psi	0...70 bar
AB100	0...1450 psi	0...100 bar
AB200	0...2900 psi	0...200 bar
AB350	0...5000 psi	0...350 bar
AB700	0...10000 psi	0...700 bar

Note:

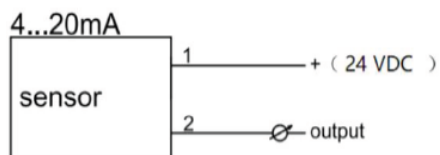
Customization on request for measuring range not listed above:

GB20 for gauge positive pressure 0...20 bar / 0...290 psi;

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

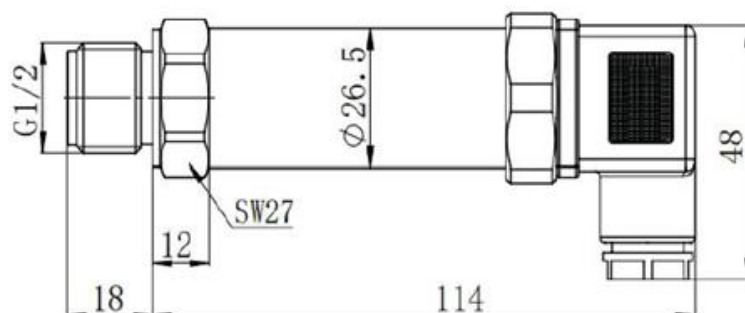
AB20 for absolute pressure 0...20 bar / 0...290 psi.

Wiring



Pin	Cable	4...20mA output
1	+	Power
2	-	4...20mA output
3	/	/

Dimensions in mm



Order Code

Example: EP100-GB1CSG12BS

1. Model

EP100- 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. Accuracy

B 0.2%
C 0.5%

4. Wetted part material

S Stainless steel 304
L Stainless steel 316L

5. 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
other connection on request

6. Electrical connection

B Hirschmann plug
M M12 x 1

7. High temperature

S Standard (-4...176°F / -20...80°C)
H High temperature (-4...392°F / -20...200°C)

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

