

Datasheet

Pressure Transmitter EP100 - Economy

Introduction

EP100 measures pressure and converts the value into an 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 mount space

Measuring range 0...700 bar / 0...10000 psi

Gauge / absolute / negative pressure

Vibration resistance

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	1.5 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 (4...20mA)
Wiring protection	Reverse polarity, Overvoltage
Temperature compensation	-10...80°C / 14...176°F
Medium temperature	-20...80°C / -4...176°F
Storage temperature	-40...125°C / -40...257°F
Protection class	IP65
Housing material	304 stainless steel
Wetted parts material	316L stainless steel
Sealing material	Fluorocarbon Rubber
Weight	0.10kg
Electrical connection	Hirschmann plug M12 x 1

Measuring range code

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

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

Note:

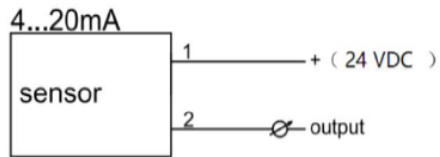
Customization on request for measuring range not listed above:

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

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

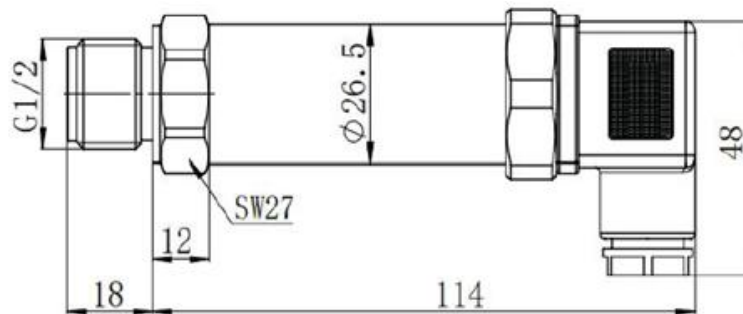
AB20 for absolute pressure 0...20 bar / 0...290 psi.

Wiring



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

Dimensions in mm



Order Code

Example: EP100-GB1CG12BS

1. Model

EP10- Economy pressure transmitter

2. Measuring range

GB1 Gauge pressure 0...1bar / 0...14.5 psi
 AB1 Absolute pressure 0...1bar / 0...14.5 psi
 NB1 Negative -1...1bar / 14.5...14.5 psi

3. Accuracy

B 0.2%
 C 0.5%

4. Process connection

N14 Thread NPT1/4
 N12 Thread NPT1/2
 G14 Thread G1/4
 G12 Thread G1/2
 M20 Thread M20 x 1.5

5. Electrical connection

B Hirschmann plug
 M M12 x 1

6. High temperature

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