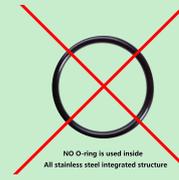


SS205 series low cost pressure transmitters

Features

- CE conformity
- Low cost and high quality
- Compact, rugged construction
- Stainless steel 316L diaphragm
- -40 to 100 °C wider working temperature
- All stainless steel structure, no O-ring inside
- Vented gauge, sealed gauge, absolute pressure
- 0.5-4.5 V, 0-5 V, 1-5 V and 4-20 mA current signal



NO O-ring used inside

All stainless steel integrated structure

Descriptions

SS205 series low cost pressure sensor is compact, economical, rugged, direct-mount pressure sensor designed for use in commercial refrigeration and air conditioning applications, it supplies with internal thread 7/16-20 UNF Depressor pressure connection and Packard electrical connection as standard, gives a 4-20mA current or 0.5-4.5v, 0-10v voltage linear analog signal based on the sensed pressure from 0 - 1 bar to 200 bar in absolute, sealed gauge and vented gauge versions.

SS205 series is designed with all stainless steel structure and operate on the piezo-resistive measuring principle, the pressure measuring cell is fully welded and no O-ring is used for sealing inside, the sensor can be used with any corrosive or non-corrosive pressure medium that is compatible with stainless steel, including water, condensate, carbon dioxide, glycol, most refrigerants, including ammonia, and many other compatible fluids and gases.

Technical data

Performance (EN 60770)

Supply voltage	5 VDC	9 to 30 VDC (optional)	
Output signal	0.5 to 4.5 V	0 to 5 V (optional)	4 to 20 mA (optional)
Measuring range	Minimum range: 1 bar Maximum range: 400 bar See more details in page 3 (part number chart)		
Proof pressure	2.0 × F.S. (≤ 200 bar)		
	1.5 × F.S. (> 200 bar) and burst 400 bar		
Accuracy	1% F.S. @ 25 °C		
	3% F.S. @ -20 → 100 °C		
Medium temp range	-40 → +100 °C		
Ambient temp range	-20 → +80 °C (depending on electrical connection)		
Insulation resistance	> 100 MΩ at 250 V		

SS205 series low cost pressure transmitters

Mechanical characteristics

Materials	Diaphragm	Stainless steel 316L
	Housing	Stainless steel 304
	Pressure connection	Stainless steel 304
	Electrical connection	Depending on the connection type
	O-ring	Not used, all stainless steel welding structure
Pressure connection	1/4 SAE female flare with deflator (7/16 - 20 UNF internal threads)	
Electrical connection	3-pin round Packard, Cable outlet	
Weight	100-200g (depending on pressure connection and electrical connection)	
Sealing rating	IP 65 (fulfilled together with mating connector)	

Dimensions (Unit: mm)

Packard connection	Cable outlet connection

Electrical connections

Connections	Pin	Function	Color
	1	Supply +	Red
	2	GND	Black
	3	Output +	Blue

SS205 series low cost pressure transmitters

Part number chart (How to order)

PART NUMBER REQUIRED: **SS205.PL.01.A.01.A.06 (EXAMPLE)**

1	Pressure range	PL
	NA(-1...0bar) PA(15psi) PB(30psi) PC(50psi) PD(75psi) PE(100psi) PF(150psi) PG(1bar) PH(1.6bar) PI(2.5bar) PJ(4bar) PK(7bar) PL(10bar) PM(16bar) PN(25bar) PO(40bar) PP(60bar) PQ(100bar) PR(160bar) PS(200bar) PT(0...250) PU(0...300) PV(0...350) PW(0...400) CA(-1...0.6bar) CB(-1...1.5bar) CC(-1...3bar) CD(-1...5bar) CE(-1...9bar) CF(-1...15bar) CG(-1...24bar) 1Z(Other pressure range or unit is on request)	
2	Pressure type	01
	01(Gauge) 02(Absolute)	
3	Electrical connection	A
	A(3-pin round Packard) B(Cable Outlet)	
4	Pressure connection	01
	01(1/4 SAE female flare / deflator) 02(1/8" NPT female) 03(1/4" NPT female) 04(1/2" NPT female) 05(9/16-18 UNF female) 06(7/16-20 UNF female) 4Z(Other pressure connection is on request)	
5	Signal & supply	A
	A(0.5-4.5V & 5Vdc) B(0.5-4.5V & 9-30Vdc) C(0.2-4.5V & 5Vdc) D(0.2-4.5V & 9-30Vdc) E(1-5V & 9-30Vdc) F(0-5V & 9-30Vdc) G(0.5-4.5V & 5Vdc ratiometric) H(4-20mA & 9-30Vdc) 5Z(Other output signal is on request)	
6	Mating cable(Pig tail)	06
	01(1m) 02(2m) 03(3m) 04(4m) 05(5m) 06(None) 6Z(Other length is on request)	

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*Specifications subject to change without notice, the latest date sheet please contact: sales@sendo-sensor.com



WARNING: DO NOT USE THIS PRODUCT AS SAFETY OR EMERGENCY STOP DEVICE OR IN ANY OTHER APPLICATION WHERE FAILURE OF THE PRODUCT COULD RESULT IN PERSONAL INJURY OR EVEN DEATH.