SPS40E Simple Process Explosion-Proof Pressure Sensor

The SPS40E is used to measure gauge pressure and compound pressure. A semiconductor pressure sensor is used as the pressure-sensing unit.

Features include compact size, light weight, high accuracy and high reliability. The structure meets with the safety requirements of special explosion-proof and general explosion-proof devices (Exdo II BT4X).

Specifications

Applicable media	Gases or liquids (except fluids which corrode the SUS316L
	pressure element)
Measuring range	±10% FS of nominal range
Ambient temperature	-10 to +60°C
Allowable pressure	1.1 times of measuring range
Response speed	400ms max.
Power	12/24Vdc
Power consumption	1W max. (including 4–20mA output)
Output	4 to 20mAdc (3-wire type)
Load resistance	300Ω max.
Mass	0.75kg

Pressure Ranges

Gauge pressure range

Code	kPa	Code	kPa
110	0 to 1	120	0 to 1000
111	0 to 2	121	0 to 200
112	0 to 3	122	0 to 300
113	0 to 5	123	0 to 500
114	0 to 7	124	0 to 700
115	0 to 10	125	0 to 1000
116	0 to 20	126	0 to 2000
117	0 to 30	127	0 to 3000
118	0 to 50	180	20 to 100
119	0 to 70	181	0 to 3500

Compound pressure range

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Code	kPa	Code	kPa
150	±1	160	-100 to +100
151	±2	161	-100 to +200
152	±3	162	-100 to +300
153	±5	163	-100 to +500
154	±7	164	-100 to +700
155	±10	165	-100 to +1000
156	±20	166	-100 to +2000
157	±30	167	-100 to +3000
158	±50	191	-100 to +3500
159	±70	-	-

(Unit: mm)

Dimensions

SENSORS





Selection Guide I II III IV V VI VII Example: SPS40E00A1101-30

egment	ent Model No. selection		Description	
1	Basic No.	SPS40E	Flame-proof and special type explosion-protected sensor	
Ш	Inlet	0	Inlet connection: Rc1/2 (PT1/2)	
Ш	Output	0A	4 to 20mA output	
IV	Range		(Refer to Pressure Ranges table)	
V	Power	1	12Vdc	
		2	24Vdc	
VI	Revision	-3	Engineering revision	
VII	Additional	0	None	
	process	D	With inspection data	
		Y	Traceability certification + inspection data	