



Data Sheet

SMR-36

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Bristol Instruments
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Boston, MA 02114

Toll free
877-866-8500

Pressure Gauges with Bourdon tube and integrated pressure sensor

Accuracy 1.0%

Standard output: 4...20 mA; 2-wire system
 or 0...20 mA; 3-wire system
 or 0...5 VDC; 3-wire system
 or 0...10 VDC; 3-wire system

Characteristics

Case in safety version S3 according to DIN EN 837-1
 analog display and analog output signal
 for remote transfer of the measuring value
 Bourdon and sensor operate independent from each other

With zero point correction for the output signal

Applications

Used for all gaseous and liquid pressure media, which are not tend to crystallise, highly viscous or attack the measuring material.

Instrument range

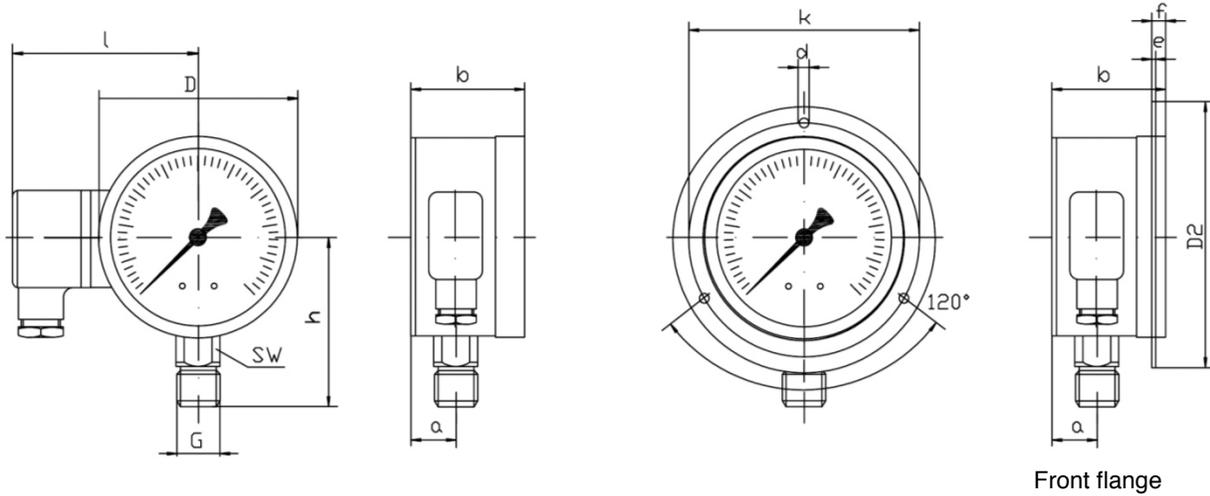
Laboratory
 Mechanical / plant engineering
 Hydraulic systems



Models and ND	SMR-36 100	SMR-36 160
Ranges in psi	0...10, 15, 25, 35, 50, 100, 150, 200, 350, 600, 1,000, 1,500, 2,000, 3,500, 5,000, 6,000 -10 to 0, -15 to 0, -15 to +10, -15 to +15, -15 to +50, -15 to +75, -15 to +130 -15 to +200, -15 to 300	
Application	Constant load : up to full scale value, alternating load : 0.9 x of full scale value Short time : 1.3 x of full scale value short time !	
Case	Stainless steel 316, with blow out plug for the case of pressure build-up inside safety disconnection wall between measuring element and dial	
Bezel	Stainless steel 316	
Window	laminated glass	
Sensor element	stainless steel measuring cell, thin film technology	
Wetted parts	Stainless steel 316L, O-ring Viton (FKM)	
Pressure connection	SW 22, Stainless steel 316 L	
Connection thread	NPT: 1/4 inch, 1/2 inch, SAE: 7/16 inch - 20	
Repeatability	< 0.05 % of full scale	
Stability per year	<0.2% full scale value in rated conditions	
Electrical connection	junction box with screwing Pg 13,5	
Power supply	12...30 VDC (14...30 VDC for output 0...10 V)	
Power consumption	For 4-20 mA output: 600 mW, for 0-10 V output: 240 mW	
Permissible load	current 2-wire: $R_{max} = ((UB-UB_{min}) / 0,02)$ Ohm, voltage: $R_{min} = 10$ Kohm	
Temp.compens. range	-18°F to 180°F (-28 to 82 °C)	
Temp. coefficient	0.3 % / 10 K, zero point and measuring element (0...50°C)	
Response time	< 1 ms (from 10% up to 90% of full scale value)	
Process temperatures	Min. to Max, Medium: -4°F to 176°F (-20°C to 80°C), Ambient: -13°F to 140°F (-25°C to 60°C)	

Dimensions and Design

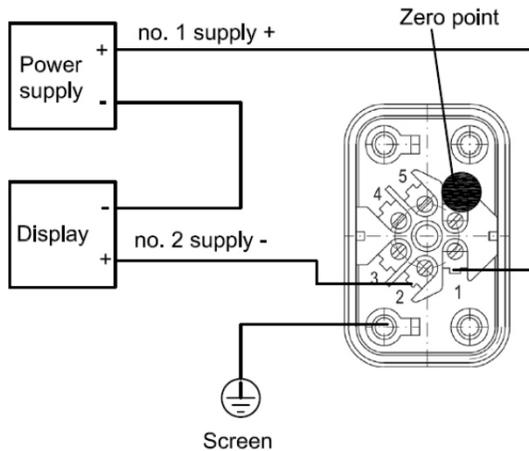
connection bottom



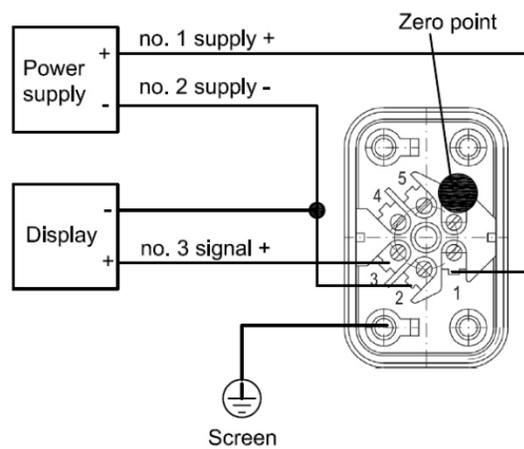
Dimensions in mm														
Model	NG	D	a	b	l	h		D2	e	f	k	d	sw	G
SMR-36	100	101	27	60	88	86		132	2	6	116	5	22	1/2 NPT
SMR-36	160	160	34	69	118	118		195	3	8	178	5.6	22	1/2 NPT

Electrical connection

2-wire system
4...20 mA



3-wire system
0...20 mA
0...5/10 V



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