

Differential pressure indicating Switch with transmitter Model 709

WIKAI data sheet PV 35.50

Applications

- Filter monitoring
- Isolation chambers
- Blowers and ventilators
- Clean or dry air measurements

Special features

- High bright red colour LED display
- 2 setpoint with direct relay output
- 4-20 mA analog output
- Field mountable weatherproof enclosure
- Zero adjustability



Differential pressure indicating switch, model 709

Description

Model 709 electronic differential pressure switch with transmitter is an ideal instrument for low pressure measurements in any industrial pneumatic applications.

The process pressure is directly measured by a monolithic silicon pressure sensor, the output of which is proportional to the applied pressure and fed to the microcontroller circuitry.

The measured process values are displayed through a 4 digit RED LED display. In addition 2 – On / Off Relay output and 4–20 mA analog current output are provided.

The setpoint values are easily set by using 3 push button keys. The entire circuitry is housed in a IP:65 compliant weatherproof enclosure suitable for surface/ wall (or) pipe mounting.

Zero shift of ± 15 mm can be adjusted through internal push buttons.

Specifications

Basic information	
Switch enclosure	ABS with Polycarbonate top cover
Display type and colour	4 digit numeric, Red LED
Display character height	14.2 mm (0.56 inch)
Display value	-199.9 ... 200 mmWC

Sensor element	
Type	Piezo-resistive, Differential pressure sensor
Media compatability	Only clean dry air and non-corrosive gases

Output signal	
Range	-200 ... +200 mmWC
Maximum working pressure	7500 mmWC
Response time	>1 second
Accuracy	±0.5% FS inclusive of Linearity, Hysterisis, Repeatability
Input functions	3 tactile keys – UP, DOWN, ENTER
Zero adjustability	±15 mm through internal push button
Setpoint	Two independent
Setpoint range	Any value within instrument range
Deadband	0.1 ... 200 mmWC
Time delay	0 ... 250 seconds
Relay	1 SPDT relay for each setpoint
Relay contact rating	5A@ 250V AC / 28 VDC
Analog output	4 ... 20 mA

Electrical connection	
Power supply	<ul style="list-style-type: none"> ■ 100 ... 240V AC ■ 18 ... 36V DC
Electrical entry	3 Nos. PG 9 - 2 Nos. PG 13.5 - 1 No.

Process connection	
Size and material	2 × 1/8" NPTF, 316 SS Hi and Lo Pressure port Standard accessory – 1/8" NPTM with Barb – 2 Nos.

Mounting	
Type	<ul style="list-style-type: none"> ■ Surface ■ Wall ■ 2" pipe

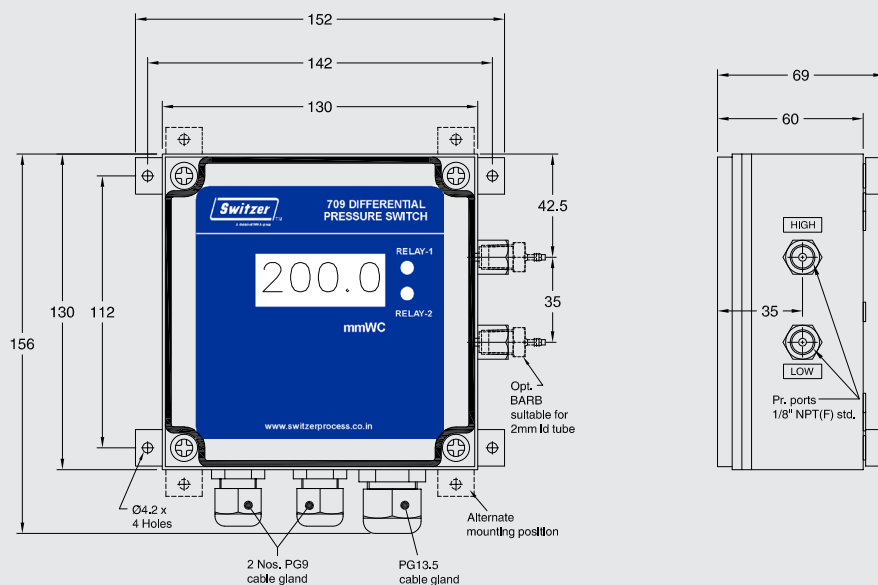
Operating condition	
Process temperature	10°C ... 50°C
Ambient temperature	0 ... 60°C
Overall dimensions	152 × 156 × 68 mm
Weight	460 gms. approx.

Ordering matrix

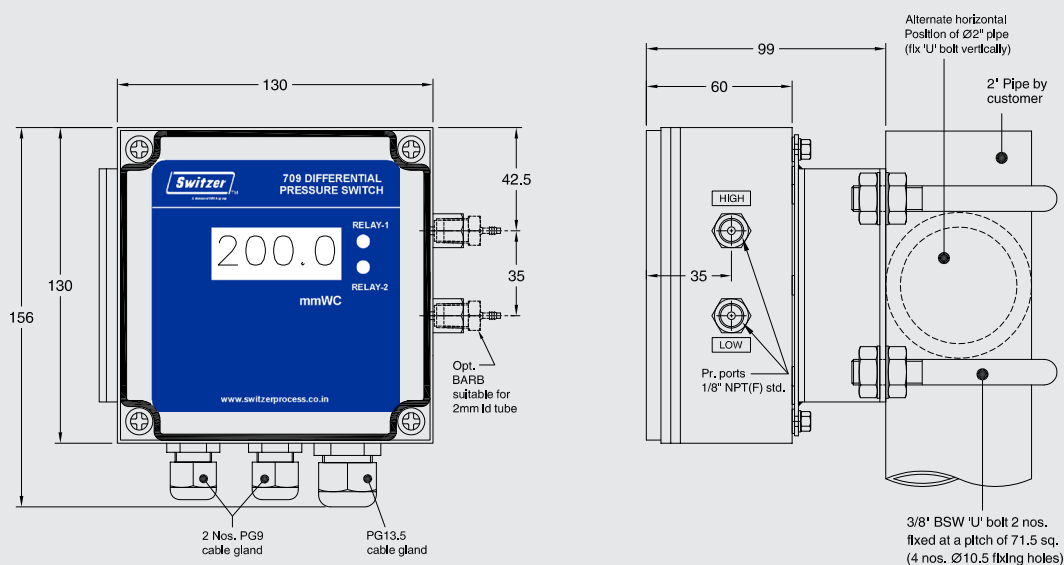
Basic model					
Differential pressure indicating switch with transmitter		709			
Power supply					
100 to 240V AC			L		
18 to 36V DC			P		
Mounting					
2" pipe				2	
Surface / Wall				W	
Barcket material (for mounting code '2' only)					
Powder coated mild steel					C
316 SS					2

Dimensions in mm

Surface / Wall



2" pipe



Ordering information

Basic model / Power supply / Mounting / Bracket material

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