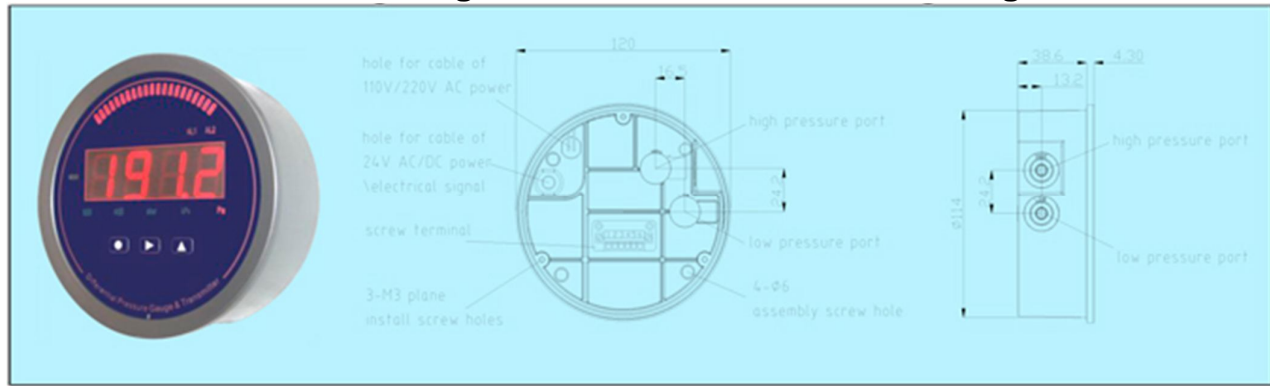


# RSA-PDG Multifunction Digital Differential Pressure Gauge



## Applications & Features

- Apply high accuracy MEMS sensor and digital technologies, can measure positive, negative or differential pressure. It can replace most of the traditional pointer mechanical gauges.
- It combines the gauge and two relays for control function
- It can measure and control system pressure of fan, blower, filter, furnace draft and orifice plate and can apply to various clean room, biological safety cabinet, clean bench, ducts collection, medical or pharmaceutical machine, etc.
- Suitable for surface, panel or flush mount
- Multiple ranges and engineering units selectable
- No any movable parts, no any effect on vibration
- The accuracy is up to  $\pm 1\%$  FS and the range can be 25pa
- Function keys: zero calibrate, units select, relay set, etc.
- Optional arch LED display for output and alarm

## Specifications

**Medium:** non-combustible, non-corrosive air, not sensitive to moisture, dust, condensation and oil

**Medium Temp.:** 0-60°C

**Materials:** cast aluminum housing and PC plate

**Work Environment:** -20~70°C

**Compensated Temp.:** 0-50°C

**Work pressure:** 1, 2, 5 or 10Kpa for different ranges  
overload 5xFS, burst 10xFS

**Dimension:** see diagram

**Connection:** 1/8" ID tubing, two pairs (on left side and back)

**Display:** 4 bits 0.8" red LED

**Relay output:** 2xSPST, 3Ax30VDC/250VAC or 1xBuzzer

**Electrical wiring:** cable or screw terminals

**Accuracy:**  $\pm 1.0\%$  FS ( $\pm 2.0\%$  FS @ 25Pa range)

**Long term stability:**  $\pm 0.5\%$  FS / Year

**Thermal effect:**  $< 0.05\%$  FS / °C (Zero),  $< 0.08\%$  FS / °C (FS)

**Response time:** 0.5-30s

**Power:** 16-28V AC/ DC, optional 85-265V AC

**Key:** 3 touch buttons

**Protection:** IP65

**Weight:** 340g

**Approval:** CE

**Accessory:** A-S0 is standard including 2m/5mm ID tube, 3 pairs of screws and brackets. Options are A-S1, A-S2 and A-S7-X. They can be used for surface, panel or flush mount and should be ordered separately. See details in Accessories.

## Models

Model	RSA-PDG				DP gauge
Range		X	0		Range selection
					N/A
Arch LED			1		Arch LED
					N/A
Relay			0	1	2xSPST
					1xBuzzer
Power			0	1	16-28V DC/AC
					85-265V AC

The standard electrical connection is cable from the back of the enclosure. If select screw terminals instead, add suffix T after the model number.

## Measuring Ranges

Code	UNIT & Range & Display Resolution					
	Pa	Pa	kPa	in w.c.	mm w.c.	mbar
0	0-25	25.00	0.025	0.100	2.500	0.250
1	0-60	60.00	0.060	0.250	6.000	0.600
2	0-125	125.0	0.125	0.500	12.00	1.250
3	0-250	250.0	0.250	1.000	25.00	2.500
4	0-500	500.0	0.500	2.000	50.00	5.000
5	0-1000	1000	1.000	4.000	100.0	10.00
6	0-2500	2500	2.500	10.00	250.0	25.00
7	0-5000	5000	5.000	20.00	500.0	50.00
8	0-10000	10000	10.000	40.00	1000.0	100.00

1. 5 engineering units can be set by the key and then the related LED will be on.

2. For zero center models, add " Z " at the end of the model. For example, RSA-PDG1\*\*\*Z, means -30-0-30pa. Only ranges 1~6 have this selection.