



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 can measure fan and blower pressures, filter resistance, air velocity, furnace draft, pressure drop across orifice plates, liquid level of bubbler systems and pressure amplifier or hydraulic system.
- It can be used in medical care equipment to monitor blood and respiratory pressures.
- 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
- Function keys: zero calibrate, units select, relay set, etc.
- Optional arch LED display for output and alarm

Display: 4 bits 0.8" red LED

Relay output: 2×SPST, 3A×30VDC/250VAC or 1×Buzzer

Accuracy: $\pm 1.0\%$ FS, see accuracy table

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

Zero Thermal effect: $< 0.05\%$ FS/°C

Full measuring Thermal effect: $< 0.08\%$ FS/°C

Response time: 0.5-30s

Power: 15-28V AC or 15-36V DC, optional 85-265V AC

Key: 3 touch buttons

Protection: IP65

Weight: 340g

Approval: CE

Accessory: A-S0 is standard. 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.

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~+85°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)

Models

| Model | DPG | | | | DP gauge |
|-----------------|-----|-----------|-------------|--------|----------------------------|
| Range | | See table | | | Ranges selection |
| Arch LED | | | 0 1 | | N/A Arch LED |
| Relay | | | 0 1 2 | | N/A 2×SPST 1×Buzzer |
| Power | | | | 0 1 | 15-28V DC/AC 85-265V AC |

Measuring ranges/Accuracy table

| Code | UNIT & Range | | | | | | Accuracy(%FS) |
|------|--------------|-------|--------|---------|---------|--------|---------------|
| | Pa | Pa | kPa | in w.c. | mm w.c. | mbar | DPG |
| 1 | 0-60 | 60.00 | 0.060 | 0.250 | 6.000 | 0.600 | 3% |
| 2 | 0-125 | 125.0 | 0.125 | 0.500 | 12.00 | 1.250 | 2% |
| 3 | 0-250 | 250.0 | 0.250 | 1.000 | 25.00 | 2.500 | 1% |
| 4 | 0-500 | 500.0 | 0.500 | 2.000 | 50.00 | 5.000 | 1% |
| 5 | 0-1000 | 1000 | 1.000 | 4.000 | 100.0 | 10.00 | 1% |
| 6 | 0-2500 | 2500 | 2.500 | 10.00 | 250.0 | 25.00 | 1% |
| 7 | 0-5000 | 5000 | 5.000 | 20.00 | 500.0 | 50.00 | 1% |
| 8 | 0-10000 | 10000 | 10.000 | 40.00 | 1000.0 | 100.00 | 1% |
| 9 | 0-20000 | 20000 | 20.000 | 80.00 | 2000.0 | 200.00 | 1% |

Note: 1. For zero center models, add "Z" at the end of the model. For example, DPG1***Z, means -30-0-30pa

2. 5 engineering units can be set by the key and then the related LED will be on