

Digital Air Pressure Switch

Model: DPS-A1.0



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

Features

- OEM service
- NPN / PNP alarm output available
- 4-20mA signal output available (option)
- Specially designed for air pressure measurement and control
- Accuracy $\pm 0.5\%$ F.S.
- Pipeline temperature measurement
- Maximum pressure value record
- Backlight on/off

Main Specifications

- ▼ **Size**
1" (29.9 mm)
- ▼ **Pressure connection**
Material: SS 304L
With O-ring sealed
1/8" PT (F)
1/8" NPT (F)
Other thread type available upon request
- ▼ **Pressure range**
Positive pressure ▼
0 to 10 bar
Negative pressure ▼
-760...0mmHg
Compound pressure ▼
-760mmHg to 10bar
- ▼ **Switch alarm output**
NPN (standard) / PNP (option)
Hysteresis mode /
Window comparator mode
- ▼ **Switch signal output (option)**
4-20 mA / 1-10V
- ▼ **Applicable fluid**
Pure, non-corrosive gases
- ▼ **Ambient temperature**
-40°C to +60°C
- ▼ **Fluid temperature**
-10°C to 60°C
- ▼ **Ambient humidity**
95% R.H.
- ▼ **Atmospheric pressure**
860...1060 mbar
- ▼ **Temperature error**
Standard temp.: 22°C
max. error: $\pm 0.5\%$ F.S.
(0~50°C)

Other Specifications

- ▼ **Ring**
ABS
Screw fixed
- ▼ **Case**
ABS
- ▼ **Screen display**
4-digit LCD with backlight
- ▼ **Power supply**
DC 8-28V
Recommended voltage: DC 24V
- ▼ **Refresh rate**
1 sec/times
- ▼ **Screen size**
19*8 mm
- ▼ **Pressure unit**
psi, bar, kg/cm2, MPa
- ▼ **Vacuum unit**
cmHg, inHg, kPa, atm
- ▼ **Resolution**
0.001
- ▼ **Measuring elements**
High-tech silicon chip
SS 316L diaphragm
- ▼ **Accuracy**
 $\pm 1\%$ F.S. (@0~50°C)
- ▼ **Operating pressure**
Burst pressure: 2.5* full scale
- ▼ **Compensated temperature**
0°C to 50°C
- ▼ **Weight**
80g

Switch mode

| | | | |
|---------------------------|--------------------------|-----------------------------|----------------------------|
| | | | |
| Hysteresis mode (reverse) | Hysteresis mode (normal) | Window comparator (reverse) | Window comparator (normal) |

How to order

| DPS-A1.0 | | Digital Air Pressure Switch | | | |
|----------|--------|---|-----|----|---|
| Code | | Pressure connection | | | |
| 1P (F) | | 1/8" PT (F) | | | |
| 1N (F) | | 1/8" NPT(F) | | | |
| O | | Others (please specify) | | | |
| Code | | Pressure range | | | |
| P | | Positive pressure: 0 to 10 bar | | | |
| V | | Vacuum pressure: -760...0mmHg | | | |
| CP | | Compound pressure: -760mmHg to 10bar | | | |
| Code | | Switch alarm output | | | |
| NPN | | NPN | | | |
| PNP | | PNP | | | |
| Code | | Analog signal output | | | |
| NA | | None | | | |
| A | | 4-20mA | | | |
| V | | 1-10V | | | |
| Code | | Other requests | | | |
| /A | | Third party notarized document | | | |
| /B | | Inspection report | | | |
| /C | | Tag | | | |
| /D | | Customized dial face (brand, color, etc.) | | | |
| /E | | Adapt the other kind of thread | | | |
| /F | | Connection material SS316L | | | |
| /G | | 24V transformer | | | |
| DPS-A1.0 | 1P (F) | P | NPN | NA | Order example: DPS-A1.0-1P (F)-P-NPN-NA |