

Digital Pressure Switch - Transmitter

RP202D



Range Limit: 100MPa



Accuracy: $\pm 0.5\%$



**Output: 2-way switch PNP/NPN/relay,
1-way analog 4~20mA**



Power Supply: 24VDC $\pm 20\%$

ROCKSENSOR AT A GLANCE (ABOUT US)

Rocksensor is one of the global leaders specializing in process Instrumentation, Research and Development and Designing of Industrial Automation Equipment. We provide highly precise pressure sensors and transmitters, flow metres, level transmitters & temperature transmitters with a prime focus to help our clients efficiently, safely and economically run complex industrial processes.

Rocksensor headquartered in Germany (originated in Switzerland), has its footprint in various geographical regions such as the US, Russia, South Korea, Italy, Germany, Singapore, Malaysia, China, Taiwan, Australia, UAE, Brazil, and India. Our clients come from some of the major industries such as Oil and Gas, Petrochemicals, Pharmaceuticals, FMCG, Automobiles, Water, Cement, Metal & Mining and mainly from the Power Industry like Nuclear, Thermal, Hydro and Solar.

Rocksensor deals in a wide range of highly accurate industrial automation instruments ensuring that even the complex industrial processes happen efficiently.

To fulfill the needs of our clients we make sure that our instruments work in even the harsh environmental conditions offering accurate recordings and communication.

We, at Rocksensor, believe in creating bonds that last a lifetime and create a success story for each and every client. Rocksensor aims to achieve a perfect fit in global market landscape and establish our footprints across the globe.



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KEY APPLICATION INDUSTRIES

- Oil and Gas sector
- Cement
- Metal
- Pulp and Paper
- Agriculture
- Textiles
- Chemicals
- Power
- Water
- Pharmaceutical
- Fertilizer
- Plastics and HVAC

1. Introduction

RP202D intelligent pressure switch is an intelligent pressure controller integrating pressure measurement, display, output and control. It is made of advanced components such as diffused silicon sensors, ARM chips, and solid state relays. It is an exquisite and reliable intelligent instrument.

2. Characteristics

- 4-digit high-precision meter tube design, the reading can be reversed 180°
- Flexible installation, the instrument body can be rotated 360°
- Support multi-unit switching
- Flexible output configuration (normally open/normally closed hysteresis, normally open, normally closed window) shock-resistant, anti-vibration service life up to 100 million times
- One-key reset, sleep mode

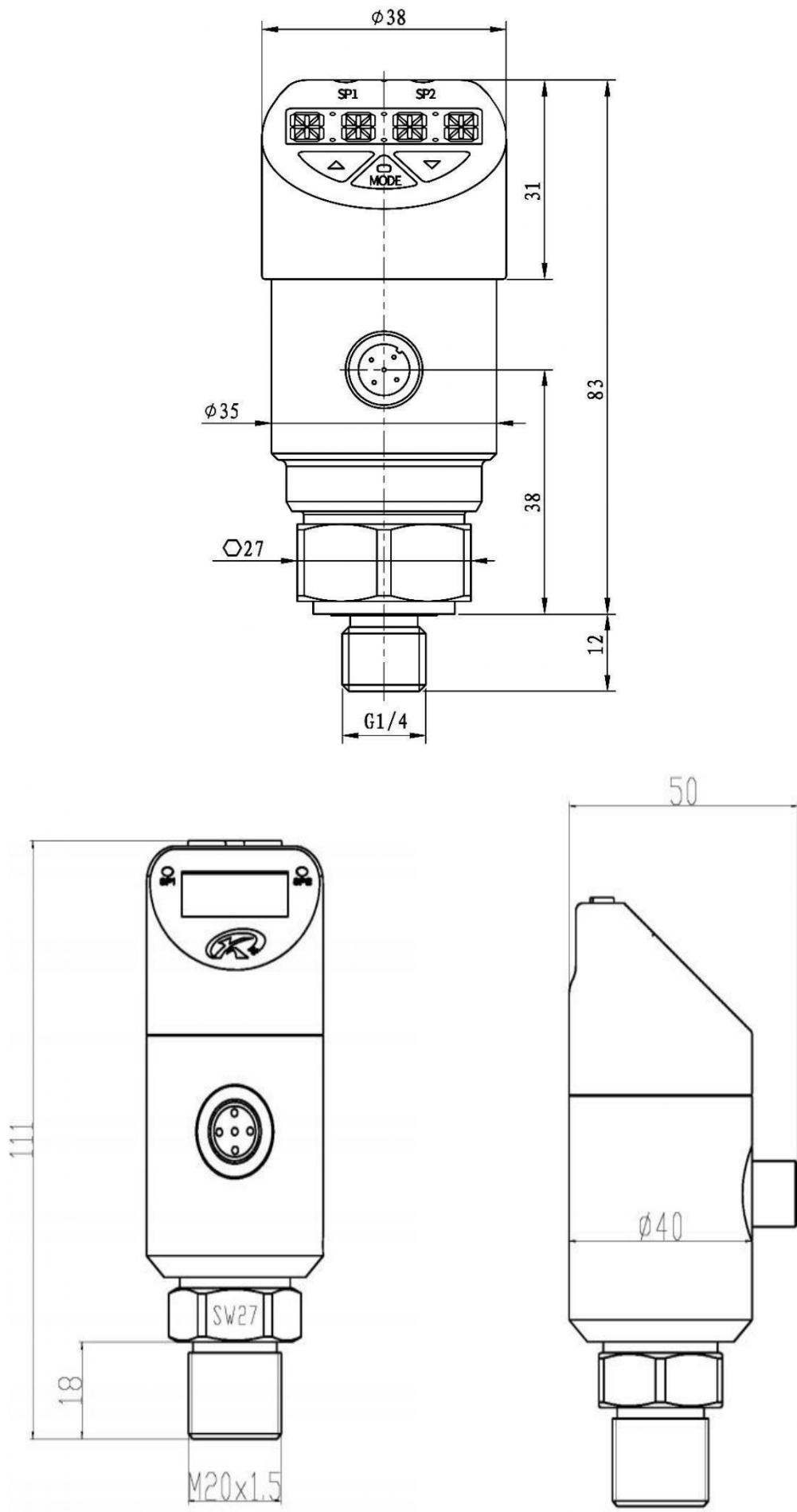
3. Technical Parameters

Characterstics	Parameters
Measuring Range	(-)100kPa...0~100kPa...100MPa
Overload	1.5 times the full scale pressure
Pressure Type	Gauge, Absolute or Seal gauge
pressure Accuracy	±0.5%FS
Display Range	-1999 ~ 9999
Display mode	4-digit meter tube high-precision display
Long-term stability	≤±0.2%FS
Zero Temperature Drift	0.03%FS/°C (≤100kPa), 0.02%FS/°C (> 100kPa)
Full-Scale Temperature Drift	0.03%FS/°C (≤100kPa), 0.02%FS/°C (>100kPa)
Compensation Temperature	0°C ~ +50°C
Working Temperature	-20°C ~ 80°C
Storage Temperature	-40°C ~ 80°C
Power Supply	24 VDC±20%
Output Signal	2-way switch PNP/NPN/relay, 1-way analog 4~20mA
Load Capacity	≤24V 1.5A
Load Resistance	≤(U-10)/0.02Ω (Two wires)
Shell Protection	IP65
Electrical Connection	Navigation Plug M12



Digital Pressure Switch - Transmitter

4. Dimensions



5. Model Selection Table

RP202D		Digital Pressure Transmitter/ Switch								
Code		1	2	3	4	5	6	7	8	9
Span	10									
0 ~ 10KPa	10k									
0 ~ 35KPa	35k									
0 ~ 70KPa	70k									
0 ~ 100KPa	100k									
0 ~ 250KPa	250k									
0 ~ 400KPa	400k									
0 ~ 600KPa	600k									
0 ~ 1.0MPa	1.0M									
0 ~ 2.5MPa	2.5M									
0 ~ 6MPa	6M									
0 ~ 10MPa	10M									
0 ~ 16MPa	16M									
0 ~ 25MPa	25M									
0 ~ 40MPa	40M									
0 ~ 60MPa	60M									
0 ~ 100MPa	100M									
Accuracy	20									
0.5%	E									
Pressure Type	30									
Gauge	G									
Absolute	A									
Power Supply	40									
24VDC	1									
90	Input Pressure									
P	Positive Pressure									
N	Negative Pressure									
80	Electrical Connection									
J02	M12 Plug									
70	Process Connection									
C02	G1/4 (M)									
C03	G1/2 (M)									
C05	NPT 1/4 (M)									
C06	NPT 1/2 (M)									
C07	M20x1.5 (M)									
C00	Customisable									
60	Diaphragm Material									
S	SS316L									
50	Output									
A1	Analog 4-20mA									
A2	PNP Switching									
A3	NPN Switching									
A4	Relay									

Example: RP202D-10kEG1A1SC02J02P

RP202D - Digital Pressure Switch - Transmitter

10k - Span : 0 ~ 10KPa

E - Accuracy : 0.5

G - Pressure Type : Gauge

1 - Power Supply : 24VDC

A1 - Output : Analog 4-20mA

S - Diaphragm Material : SS316L

C02 - Process Connection : G1/4 (M)

J02 - Electrical Connection : M12 Plug

P - Input Pressure : Positive Pressure

Field Instrumentation Range



Pressure Measurement

- Smart Differential Pressure Transmitter
- Smart Gauge Pressure Transmitter
- Smart Absolute Pressure Transmitter
- Miniature Pressure Transducer without display
- Sanitary Gauge/ Absolute Pressure Transmitter

- Submersible Pressure Transmitter
- Remote Seal Differential P.T. with capillary
- Remote Seal Differential P.T. Direct Mount
- Remote Seal Gauge/Absolute P.T. with capillary
- Remote Seal Gauge/Absolute P.T. Direct Mount



Flow Measurement

- Coriolis Mass Flowmeter
- Thermal Gas Mass Flowmeter
- Positive Displacement Flowmeter
- Electromagnetic Flowmeter
- Vortex Flowmeter

- Turbine Flowmeter
- Variable Area Flowmeter
- Clamp On Ultrasonic Flowmeter
- Inline Ultrasonic Flowmeter
- Portable Ultrasonic Flowmeter



Level Measurement

- RADAR Level Transmitter Horn Antenna
- Compact RADAR Level Transmitter
- RADAR Level Transmitter Sanitary
- RADAR Level Transmitter
- Guided Wave RADAR Level Transmitter
- Guided Wave RADAR Level Transmitter
- RADAR Level Transmitter Lens Antenna

- RADAR Level Transmitter Rod Antenna
- Ultrasonic Level Transmitter
- Microwave Barrier Level Switch
- Admittance Level Switch Series
- Vibrating Rod Level Switch Series
- Tuning Fork Level Switch Series



Temperature Measurement

- Head Mount Temperature Transmitter
- Temperature Transmitter for Sanitary Applications

- DIN Rail Temperature Transmitter
- Field Mount Temperature Transmitter

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