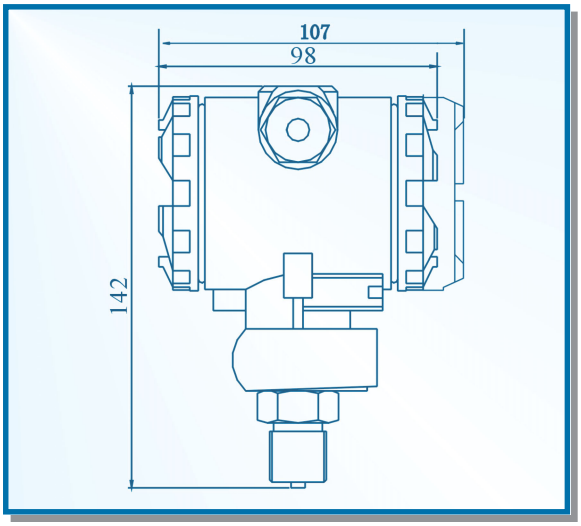
P-K1

Pressure Transmitter

825B090D

Features

- Measuring Range:
  - Gauge Pr.: Max. 0÷60Mpa Min. 0÷4kPa
  - Absolute Pr.: Max. 0÷10MPa Min. 0÷20kPa
  - Negative Pr.: Max. -0.1÷2MPa
- Power supply: 12,5÷30Vdc (2-wired)
- Output signal: 4÷20mA
- Overload Capacity: 1.5 Times of F.S
- Max. accuracy: ±0.1%FS
- Typical long-term stability: ±0.1%FS per year
- Operation Temperature: -20° ÷ +70°C
- Mechanical protection: IP67
- Max. adjustment scale: "Zero" ±5%F.S. F.S. ±20%F.S.



- *2-wired 4÷20mA transmitter*
- *Pressure Classification: Absolute , gauge or negative*
- *Accuracy: ±0.1% F.S.*
- *Particularly heavy applications suitable*
- *Any mounting positions compact transmitter*

General

P-K1 Series Universal Pressure Transmitters adopt internationally advanced sensors and are assembled with highly accurate components. Its dry-pressure (without any liquid medium) measurement technology fully exert the advantages of ceramic sensors, and greatly contribute to the superior technological performance of overloading, small temperature offset, high stability and high accuracy.

P-K1 Series Universal Pressure Transmitters are of a variety of output signals, ranges, process connections and materials, which resulted in suitable application in Petroleum, Chemical, Power, Metallurgy, Pharmacy and foodstuff industries under different conditions and medium. Therefore, they are becoming the ideal pressure measurement instrument for automation as well as perfect substitutes or upgrading products for conventional pressure gauges or pressure transmitters.

1. Power Supply and Output Signals

P-K1 series pressure transmitters are powered by 24Vdc, and as for 2-wired transmitters with output of 4÷20mA, they can be normally operated during range of 5mA-30mA DC.

2. Technical Specifications

Material of Contact Part with Measured Medium:

Process Connection: SS316L
SS304
Hastelloy C

Sealed Material: Flourin Rubber, FPM (Viton)
Butyl Rubber, IIR
Polyvinyl-4F: PTFE (Teflon)
Fully Sealed Welding

3. Adjustment & Calibration for "Zero" and Full-scale Output

Local adjustment with the "Zero" and "Span" trimmers in the housing.

4. Installation and Operation

P-K1 series pressure transmitters can be installed on pressure joint of pipeline. A cut-off valve should be added between pressure joint and pipepline to make it easier for installation and debugging. The impact on "Zero" from the installation position can be well adjusted and calibrated.

5. Technical Specifications

Measuring Range:	Gauge Pr.:	Max. 0÷60Mpa	Min. 0÷4kPa
	Absolute Pr.:	Max. 0÷2MPa	Min. 0÷20kPa
	Negative Pr.:	Max. -0.1÷2MPa	Min. -2÷2kPa

Overload Capacity: 1.5 Times of F.S

Pressure Classification: Absolute pressure, gauge pressure or negative pressure

Accuracy: Typical: ±0.1FS; ±0.2FS; ±0.5%FS (Including non-linearity, sluggishness and repetition)

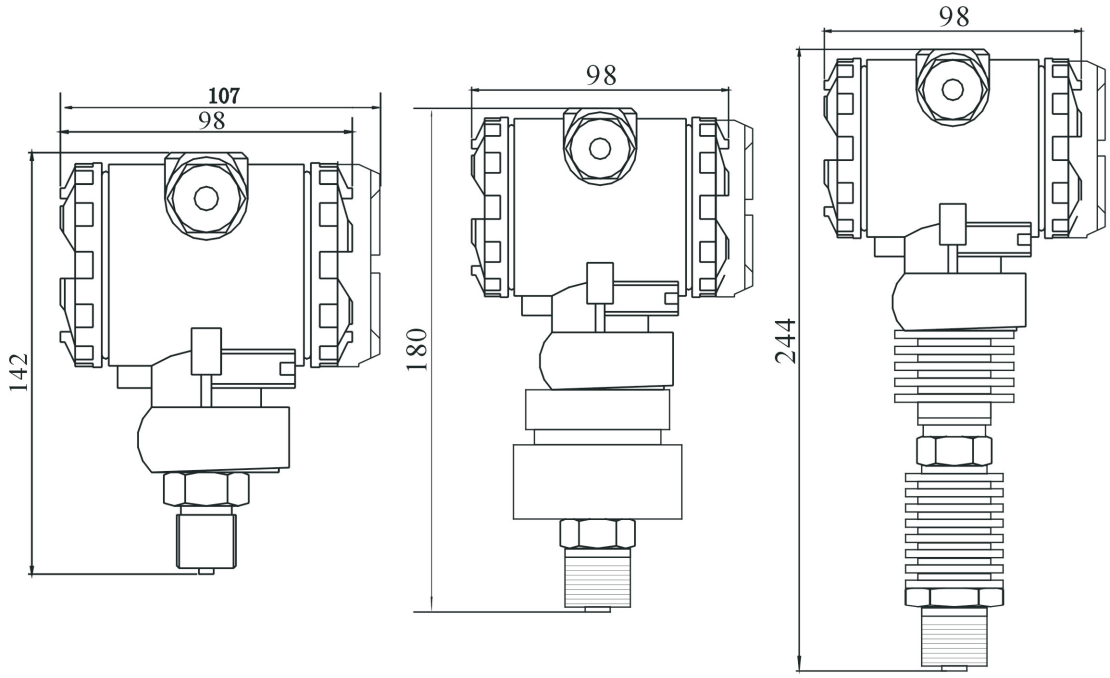
Long-term Stability: Typical: ±0.1%FS per year; Max. ±0.2%FS per year

Tolerant Temperature: Normal Operation Temperature: -20°÷ +70°C
Membrane: -20°÷ +80°C (even up to 130°C at a short time)
High & Low Temperature: -65°÷ +150°C; 10°÷ +200°C;

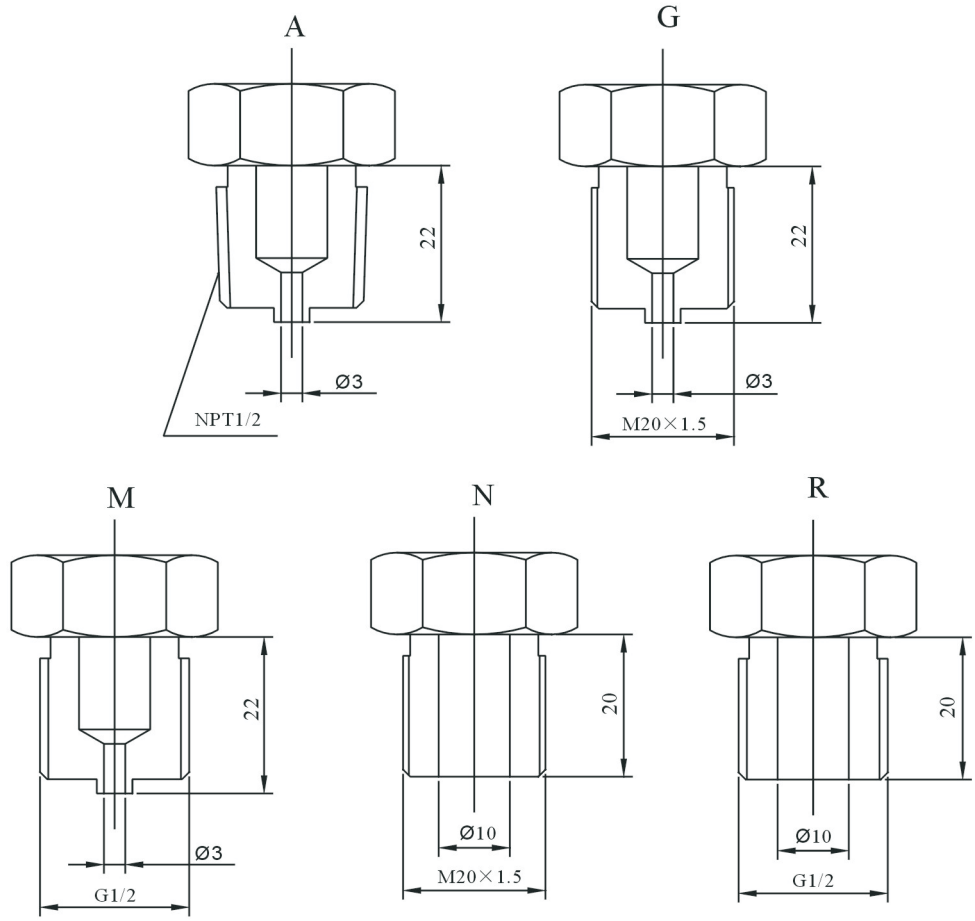
Storage Temperature: -40°÷ +80°C

Relative Humidity: 0÷100%RH

6. Outline Dimensions and Mounting Dimensions



7. Process Connection



P-K1 - Model Table

P-K1	Pressure transmitter

Code	Sensor type
A1	Si-diffused standard
A2	Ultra-stable
A3	With flat membrane
A4	With anti-corrosive membrane (Ta)
B1	For high or low temperature: (-65°÷ +150°C)
B2	For high or low temperature: (-10°÷ +200C)
C0	With ceramic capacitor

Code	Certification
S	None

Code	Process connection material
1	Stainless Steel 316L
2	Stainless Steel 304
4	Hutchinson alloy C
9	Special

Code	Process connection
A	Male screw thread 1/2"NPT (small hole)
M	Male screw thread G½" (small hole)
R	Male screw thread G½" (big hole)
Y	Special

Code	Sealed material
1F	Fluorin Rubber: FPM (Viton)
2F	Butyl Rubber: IIR
3F	Polyvinyl-4F: PTFE (Teflon)
4F	Fully Sealed Welding

Code	Output
2	2 wire 4÷20mA
9	Special

Code	Display
A	None
C	0÷100% Digital LCD
Y	Special

Code	Accuracy
1	0,1%
2	0,2%
5	0,5%

Code	Measure range
xxx	Please see “Standard Range Table of P-K1”series pressure transmitters

Code	Measured pressure
A	Absolute Pressure
B	Air-proof Reference Pressure(please provide reference pressure)
G	Gauge Pressure

P-K1	A1	S	1	G	1F	2	A	5	G17	G

P-K1 - Standard range table

Gauge	Absolute	Measuring Range	Adjustment Range	Si-diffused or High Temperature Overlaod	Capacitance	Si-diffused	High & Low Temperature
G01	N	0÷4KPa	1.6÷5KPa	6.0KPa	N	N	Y
G02	N	0÷6KPa	4÷10KPa	9.0KPa	N	N	Y
G03	N	0÷10KPa	4÷20KPa	15KPa	N	Y	Y
G04	N	0÷16KPa	6.4÷20KPa	25KPa	N	Y	Y
G05	**A01**	0÷20KPa	8÷35KPa	30KPa	N	Y	Y
G06	**A02**	0÷25KPa	10÷35KPa	40KPa	N	Y	Y
G07	**A03**	0÷30KPa	12÷35KPa	45KPa	N	Y	Y
G08	**A04**	0÷35KPa	14÷35KPa	55KPa	N	Y	Y
G09	**A05**	0÷40KPa	16÷70KPa	60KPa	N	Y	Y
G10	**A06**	0÷60KPa	24÷70KPa	90KPa	Y	Y	Y
G11	**A07**	0÷100KPa	40÷100KPa	150KPa	Y	Y	Y
G12	**A08**	0÷160KPa	64÷200KPa	250KPa	Y	Y	Y
G13	**A09**	0÷200KPa	80÷200KPa	300KPa	Y	Y	Y
G14	**A10**	0÷250KPa	100÷350KPa	400KPa	Y	Y	Y
G15	**A11**	0÷400KPa	160÷700KPa	600KPa	Y	Y	Y
G16	**A12**	0÷600KPa	240÷700KPa	1.0MPa	Y	Y	Y
G17	**A13**	0÷1.0MPa	0.4÷1.0MPa	1.5MPa	Y	Y	Y
G18	**A14**	0÷1.6MPa	0.64÷2.0MPa	2.5MPa	Y	Y	Y
G19	**A15**	0÷2.0MPa	0.8÷2.0MPa	3.0MPa	Y	Y	Y
G20	N	0÷2.5MPa	1.0÷3.5MPa	4.0MPa	Y	Y	Y
G21	N	0÷4.0MPa	1.6÷4.0MPa	6.0MPa	Y	Y	Y
G22	N	0÷6.0MPa	2.4÷7.0MPa	9.0MPa	Y	Y	Y
G23	N	0÷10MPa	4.0÷10MPa	15MPa	Y	Y	Y
G24	N	0÷20MPa	8.0÷20MPa	30MPa	N	Y	Y
G25	N	0÷30MPa	12÷35MPa	45MPa	N	Y	Y
G26	N	0÷40MPa	16÷40MPa	60MPa	N	Y	Y
G27	N	0÷60MPa	24÷60MPa	90MPa	N	Y	Y
G28	N	-2÷2KPa	-1.6÷2.5KPa	N	N	N	Y
G29	N	-5÷5KPa	-3÷5KPa	N	N	N	Y
G30	N	-10÷10KPa	-6÷10KPa	30KPa	N	Y	Y
G31	N	-20÷20KPa	-13÷20KPa	60KPa	N	Y	Y
G32	N	-50÷50KPa	-33÷50KPa	150KPa	N	Y	Y
G33	N	-100÷60KPa	-66÷100KPa	250KPa	N	Y	Y
G34	N	-100÷100KPa	-66÷100KPa	300KPa	N	Y	Y
G35	N	-100÷150KPa	-100÷200KPa	400KPa	N	Y	Y
G36	N	-100÷300KPa	-100÷350KPa	600KPa	N	Y	Y
G37	N	-100÷500KPa	-150÷500KPa	1.0MPa	N	Y	Y
G38	N	-100÷900KPa	0.24÷1.0MPa	1.5MPa	N	Y	Y
G39	N	-100KPa÷1.5MPa	0.5÷1.9MPa	3.0MPa	N	Y	Y
G40	N	-100KPa÷2.0Mpa	0.5÷2.0MPa	3.0MPa	N	Y	Y
Z99	N	Special	Special	Special	N	Y	Y
Note: "N" means unavailable, "Y" means available.							

Note 2: Special orders are all transmitters with membrane material of code A or B with pressure range below 20kPa and all transmitters with membrane material of code C with pressure range over 20MPa.

P-K1 Warranty

Products supplied by SGM LEKTRA are guaranteed for a period of 12 (twelve) months from delivery date according to the conditions specified in our sale conditions document. SGM LEKTRA can choose to repair or replace the Product. If the Product is repaired it will mantein the original term of guarantee, whereas if the Product is replaced it will have 12 (twelve) months of guarantee. The warranty will be null if the Client modifies, repair or uses the Products for other purposes than the normal conditions foreseen by instructions or Contract. In no circumstances shall SGM LEKTRA be liable for direct, indirect or consequiential or other loss or damage whether caused by negligence on the part of the company or its employees or otherwise howsoever arising out of defective goods.

P-K1 Factory test certificate CE

In conformity to the company and ceck procedure I certify that the equipment:

P-K1 ..... part nb. .....

is conform to the technical requirements on Technical Data and it is made in conformity to the SGM-LEKTRA procedure

Quality Control Manager: .....

Production and check date: .....

SGM LEKTRA s.r.l.

ISO 9001:2008 DEKRA Certification DEKRA Certified Quality Management We are certified Voluntary participation in regular monitoring according to ISO 9001:2008

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