



P049

| Features |

- High performance diffuse silicon piezoresistive sensor adopted
- Used for the pressure measurement for multiple kinds of medium such as gas, liquid, etc.
- Wide pressure ranges
- Optional digital display
- Optional multiple kinds of output signals

| Introduction |

eYc P049 pressure transmitter adopts the high performance and high stability OEM pressure sensor as the signal measuring element, and through the special signal processing, the sensor signal is transformed into the standard signal output; after the long-term aging and stability selecting, the product performance is stable and reliable, applies to the outdoor field with quite harsh environment, and meanwhile ensures the field pressure display, with zero and full span transferable. For P049 pressure transmitter installation connection mode, it can be processed based on the user's requirement, or the specification compatible with the transmitters of other brands can be provided. The products of this series widely apply to the industrial process control, petroleum, chemical industry, metallurgy, and other industries.



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Applications:

Industrial field control / Oil field / Heavy industry / Chemical industry / Gas pipe network / Water supply pipe network

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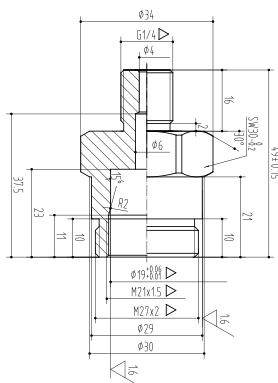
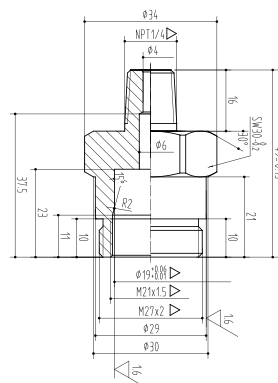
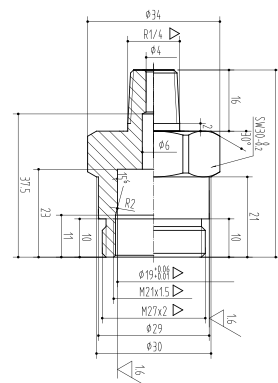
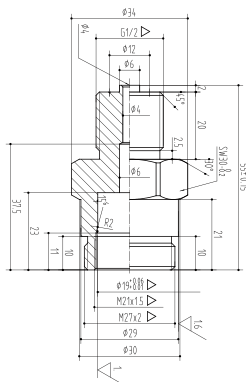
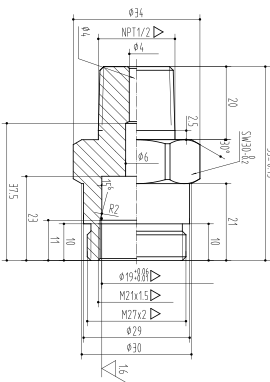
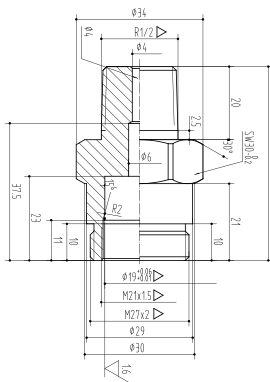
| Specification |

Measuring range	-1 ... 0 ... 0.2 ... 1000 bar
Pressure type	Relative pressure / Absolute pressure
Output	4 ... 20 mA(12 ... 36 V)
Operating Temp.	-20°C ... 85°C
Medium Temp.	-20°C ... 85°C
Storage Temp.	-40°C ... 125°C
Zero Temp. coefficient	±1.5%F.S.(at -20°C ... 85°C)
Sensitivity Temp. coefficient	±1.5%F.S.(at -20°C ... 85°C)
Over pressure	150%F.S. ... 300%F.S.
Mechanical vibration	20 g(20 ... 5000 Hz)
Shock	100 g(11 ms)
Comprehensive accuracy	0.5%
Insulation	100 MΩ / DC 250 V
Response time	≤1 ms(Up to 90%F.S.)
Long-term stability	±0.2%F.S. / Year
EMC surge	(IEC61000-4-5)2 kV
EMC static	(IEC61000-4-2)contact discharge 8 kV, air discharge 15 kV
IP rating	IP65
Material	Low copper aluminum alloy(Housing) / S.S.316L(Diaphragm)
Medium compatibility	All the medium compatible with S.S.316L

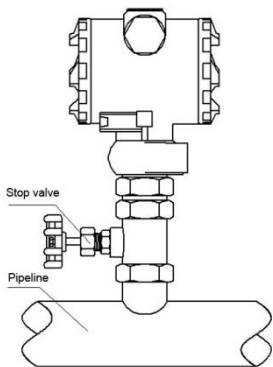
| Electrical Connection & Connection Method |

Dimension in mm	Connection mode (Current output)

| Connecting Thread |

Type	G 1/4"	NPT 1/4"	R 1/4"
Dimension in mm			
Type	G 1/2"	NPT 1/2"	R 1/2"
Dimension in mm			

| Installation Instruction(for reference only) |



Installation suggestion:

- (1) The product is installed vertically on the field pressure connection.
- (2) During the outdoor installation, try to put the transmitter in a dry and ventilated place, and avoid direct strong sunshine and rain, or else the performance will become poor or break down.
- (3) When the product is installed in the area with frequent lightning, "lightning protection" should be indicated when ordering; meanwhile, we suggest that the user additionally install the lightning protection equipment on site, and ensure reliable grounding of the product and the power supply, which can reduce the probability of the transmitter damage caused by the lightning.
- (4) If no output or abnormal output of the transmitter is found after the installation, please check:
 - ① Whether the electrical connection is accurate and firm;
 - ② Whether the supply voltage is too low and whether the load resistance is too high.

| Measuring Range Selection |

Pressure range	Over pressure	Burst pressure
0 ... 25 bar	200% F.S.	500% F.S.
>25 bar ... ≤160 bar	200% F.S.	400% F.S.
>160 bar ... ≤1000 bar	150% F.S.	300% F.S.

| Ordering Guide |

P049 -	Pressure Type	Pressure Range	Connect Thread	Option
	0	21	3	W
	<u>0: Absolute pressure</u> <u>1: Relative pressure</u>	<u>00: -1 ... 0 bar</u> <u>03: 0 ... 0.3 bar</u> <u>06: 0 ... 0.6 bar</u> <u>11: 0 ... 1 bar</u> <u>12: 0 ... 1.6 bar</u> <u>13: 0 ... 2.5 bar</u> <u>14: 0 ... 4.0 bar</u> <u>16: 0 ... 6.0 bar</u> <u>21: 0 ... 10 bar</u> <u>22: 0 ... 16 bar</u> <u>23: 0 ... 25 bar</u> <u>24: 0 ... 40 bar</u> <u>25: 0 ... 60 bar</u> <u>26: 0 ... 100 bar</u> <u>27: 0 ... 160 bar</u> <u>28: 0 ... 250 bar</u> <u>29: 0 ... 400 bar</u> <u>30: 0 ... 600 bar</u> <u>31: 0 ... 1000 bar</u>	<u>1: G1/4"</u> <u>2: NPT1/4"</u> <u>3: R1/4"</u> <u>4: G1/2"</u> <u>5: NPT1/2"</u> <u>6: R1/2"</u>	<u>W: Others</u>

| Additional Option (ILAC / TAF) Test Report |



Additional option: (ILAC / TAF) Test report - Standard calibration laboratory (TAF accreditation: 3032, complying with ISO / IEC 17025)
TAF has mutual recognition arrangement with ILAC MRA

Project	Measurand level or range
Pressure gauge	Gauge pressure: 10 ... 7000 kPa (5 basic points or 3 basic points)
	Absolute pressure: 20 ... 170 kPa (5 basic points or 3 basic points)