P063
Differential Pressure Transmitter

| Features |

- Using piezoresistive differential pressure sensor, 316L isolated diaphragm
- Welding and full-sealed construction, full stainless housing, compact size, easy installation
- Well overload capacity and shock effect, nicer long-term stability with reasonable price

| Introduction |

eYc P063's output signal from Weston Bridge on the sensing die has a good linear relationship with differential pressure, so the measured differential pressure could be measured precisely.
The whole product is used for differential pressure measurement of various gases and liquids in pipeline in many fields including petroleum, chemi-industry, power station and hydrology, etc.

| Applications |

Measuring differential pressure for liquid and gas / For research and development, laboratory, and processing engineering / Mechanical equipment, water plant, air equipment, chiller unit / Differential pressure measurement of gases and liquids in pipelines such as petroleum, chemi-industry, power station and hydrology, etc.

| Specification |

Input

Sensor type	Piezoresistive Diaphragm
Measuring range	0 ... 290 psi
+ Overpressure	≦ 145 psi：2 x F.S.
	＞ 145 psi：2 x F.S.
- Overpressure	≦ 145 psi：1 x F.S.
	＞ 145 psi：0.5 x F.S.

Output

Output	4 … 20 mA / 0 ... 10 V
Signal connection	2-wire
Load resistance(Current output)	≦(Operating voltage-10 V) / 0.02 A Ω
Output calibration(ZERO & SPAN)	±2.0% of F.S.
	±10% of zero-point and full-scale
Response time(10 … 90%)	≦ 5 ms

Accuracy

Accuracy	±0.5% of F.S.

Temperature influence(at +35°C)

Zero-point error	≦ 29 psi：±0.75% of F.S.
	Max.：±1.25% of F.S.
	＞ 29 psi：±0.5% of F.S.
	Max.：±0.75% of F.S.
Measuring range error	≦ 29 psi：±0.75% of F.S.
	Max.：± 1.25% of F.S.
	＞ 29 psi：±0.5% of F.S.
	Max.：±0.75% of F.S.

Environment

Measuring medium	Liquid / Air(Provide coating)
Medium Temp.	0 ... +70°C
Operating Temp.	0 ... +70°C
Operating humidity	0 ... 100%RH(Non-condensing)
Storage temperature	-40 ... +70°C

Electrical

Power supply	DC 18 ... 36 V
Current consumption	≦ 27.5 mA
Overvoltage protection	< DC 33 V
Electrical connection	DIN 43650

Installation

Installation	Duct

Protection

IP rating	DIN 43650 : IP65
Electrical protection	■ Over-voltage ■ Polarity
	■ Short-circuit
Shock effect	≦ ± 1 % at 3 g RMS，30Hz … 2000Hz

Certification

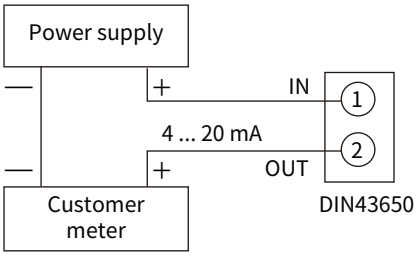
Certification	CE

Material

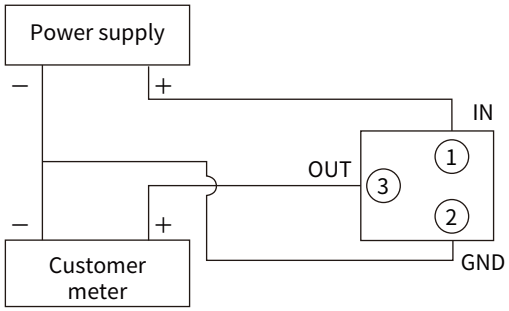
Housing	SUS 316L
Wetted part	SUS 316L
Sensor	SUS 316L
Connect thread	SUS 304
Oil seal	Viton
Weight	410 g (Without outside thread)

| Diagram |

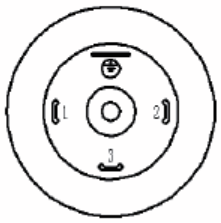
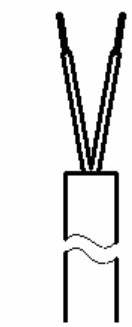
Current output



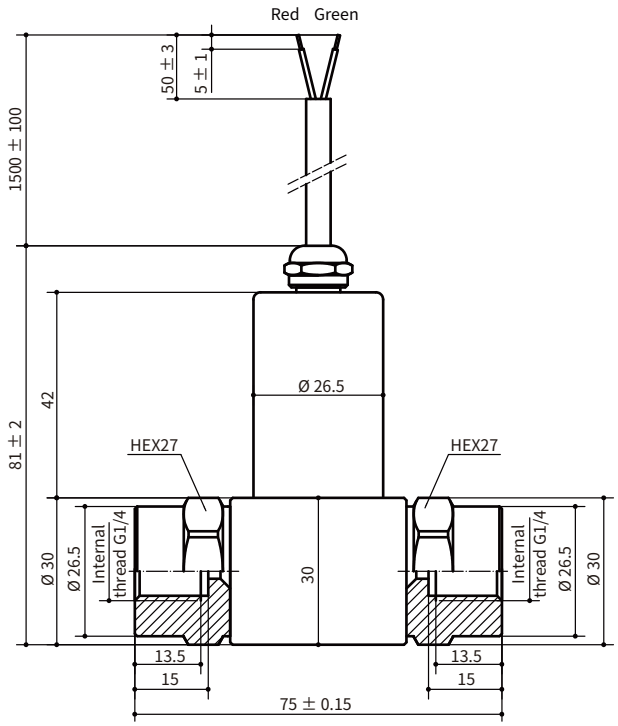
Voltage output

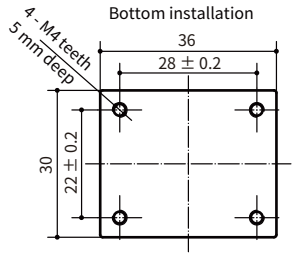


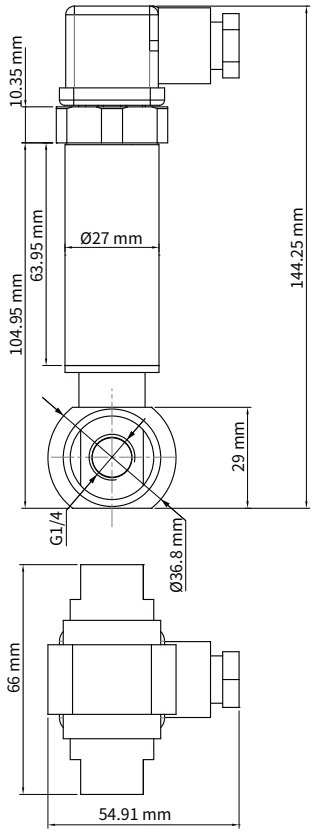
| Electrical Connection & Connection Method |

Connector	Dimension in mm	Connection mode Current(2-wire)	Connection mode Voltage(3-wire)
DIN 43650		Pin 1: V + Pin 2: Iout	Pin 1: V + Pin 2: V − Pin 3:Vout
Cable Connection Unmarked dimensional tolerances ± 0.1		Red : V + Green : Iout	Red : V + Green/Blue : V − Yellow : Vout

| Dimension | Unit : mm







DIN 43650 ABS plug

| Ordering Guide |

P063 —

Pressure range	Output	Power supply	Connect thread	Connector
21	1	0	0	1
1：0.1 bar	1：4 ... 20 mA	0：DC 18 ... 36 V	0：G 1/4" Inside thread	1：DIN 43650
2：0.2 bar	6：0 ... 10 V			2：1.5 M Cable - Outdoor
4：0.4 bar				
6：0.6 bar				
11：1 bar				
13：2.5 bar				
14：4 bar				
16：6 bar				
21：10 bar				
22：16 bar				
23：25 psi				
24：50 psi				
25：100 psi				
26：150 psi				
27：200 psi				
28：250 psi				