

QDP33



Incredible “MANOSTAR”

HIGH QUALITY
COMPACT BODY
CLEAR DISPLAY
30mm × 30mm

Equipping the capacitive sensor of in-house development

- ▶ Highly sensitive and precise
- ▶ Correspondence to various micro differential pressure ranges

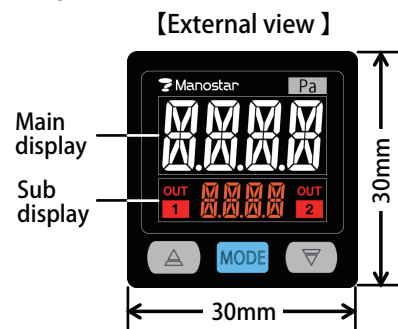
One of the smallest micro differential pressure sensors

- ▶ The body size: 30mm width and 30mm height
- ▶ Capability of close adherence installation

Sophisticated design and visibility

- ▶ High-quality white LCD (main display)
- ▶ Alphanumeric indication in 12 segments

【Installation example】



SPECIFICATIONS

Product code

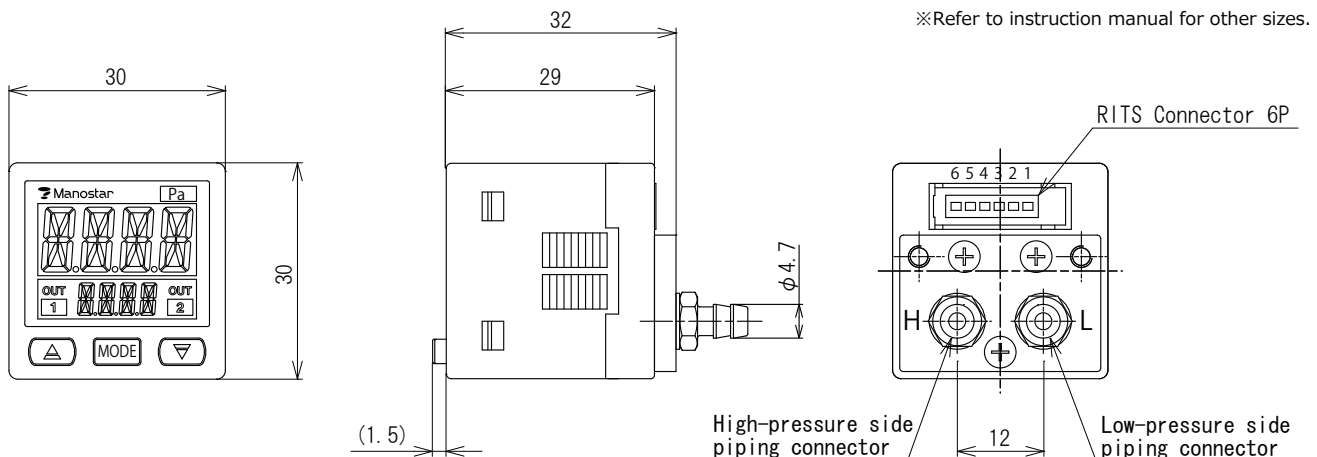
QDP33	N	1	D	200	(example)
					Pressure range code
					Pressure range
					Max. value of scale (Indicate "±" for ± range)
					Unit
					D Pa
					E kPa
					Analog output
					1 4 to 20 mA
					4 1 to 5 V
					Comparison output
					N NPN transistor
					P PNP transistor

Pressure range code	Rated pressure range	LCD display
D 50	0 ~ 50 Pa	0.0 ~ 50.0
D 100	0 ~ 100 Pa	0.0 ~ 100.0
D 200	0 ~ 200 Pa	0 ~ 200
D 300	0 ~ 300 Pa	0 ~ 300
D 500	0 ~ 500 Pa	0 ~ 500
D 1000	0 ~ 1000 Pa	0 ~ 1000
E 1	0 ~ 1 kPa	0.00 ~ 1.00
E 2	0 ~ 2 kPa	0.00 ~ 2.00
D +-50	-50 ~ +50 Pa	-50.0 ~ 50.0
D +-100	-100 ~ +100 Pa	-100 ~ 100
D +-200	-200 ~ +200 Pa	-200 ~ 200
D +-300	-300 ~ +300 Pa	-300 ~ 300
D +-500	-500 ~ +500 Pa	-500 ~ 500
D +-1000	-1000 ~ +1000 Pa	-1000 ~ 1000
E +-1	-1 ~ +1 kPa	-1.00 ~ 1.00
E +-2	-2 ~ +2 kPa	-2.00 ~ 2.00
* D 10	0 ~ 10 Pa	0.00 ~ 10.00
* D 25	0 ~ 25 Pa	0.00 ~ 25.00
* D +-10	-10 ~ +10 Pa	-10.00 ~ 10.00
* D +-25	-25 ~ +25 Pa	-25.0 ~ 25.0

* Expected to release in 2020.

Pressure measuring method	Measuring differential pressure
Gas to be measured	Air or non-corrosive gas (not liquid)
Sensor method	Electrostatic capacitance type
Installation position	On vertical wall only
Medium and ambient temperature	0 to 60 °C (no freezing)
Ambient humidity	35 to 85 % RH (no dewing)
Withstanding pressure of instrument body	10kPa
Withstanding pressure of receiving element	10kPa
Display	Main display 12 segments LCD (White or Red) 4 digits Sub display 12 segments LCD (Orange) 4 digits Accuracy ± 1.0 % FS ± 1 digit (at 23 °C) Temperature characteristic ± 0.15 % FS/°C (zero + span)
Insulation resistance	Between each terminal and case : 10 MΩ or more (500 V DC megger)
Comparison output	Setting method Push type of digital setting Output display Red LCD×2 Output type NPN transistor open collector : Two channels PNP transistor open collector : Two channels
Analog output	Accuracy ± 1.0 % FS (at 23 °C) Temperature characteristic ± 0.15 % FS/°C (zero + span)
Pressure inlet	M5 internal thread Product with metal barb connector Applicable piping : I.D.4
Mass	30g approx.
Connector	RITS Connector 6P (TE Connectivity)
Power supply voltage	12 to 24 V DC ± 10 % (with a ripple 10 % or less)
Connector polarity	Pressure side mark indicated on the pressure inlet that high side is H and low side is L.
Protection degree	Standard IEC60529 IP-code IP 40
Zero adjustment	Push type auto zero (both display scale and analog output adjust zero point at the same time)
Material of the outer case	PBT and polyamide
Conformed standards	RoHS Directive, UL Standards
Accessories	Nil (wiring side connector and attaching parts are sold separately)

OUTLINE



- The specifications and description of the product explained in this leaflet may be subject to change without prior notice because of modification and the like.
- The contents are as of September 2019.

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