

PRODUCT INFORMATION

Digital Pressure Gauge DP Gauge

DP-340BA is applicable to a wide range of pressures from a micro pressure (500 Pa) to a high pressure (50 MPa). It is a digital pressure gauge with a high-accuracy sensor that has excellent overpressure resistance.

DP-340BA
DP GAUGE



DP-340BA front panel



DP-340BA rear panel

* The wiring of the I/O connector is the same as that of DP-330BA. However, the top and bottom sides of the I/O connector should be inverted (180 degrees) to insert the connector.

■ Features

- Pressure value display in testing machine
- Test pressure monitoring of leak or flow test, etc.
- Pressure decay method
- Hole diameter & dimension test by pressure deviation
- Pressure monitoring inside of tubing or container
- Differential pressure test of orifice, pilot tube

■ Application examples

- With a wide range of pressures, applicable to various types of tests.
- Easy replacement by current DP-320 and DP-330.
- Internal or external sensor can be selected according to your requirement.
- Conforms to the CE. (The model with external sensor does not conform.)
- Traceability certification and inspection report will be attached to all the models.
- Power supply is 24VDC and can be used for 100-240VAC with included adaptor.

■ Features

Feature	Description
Digital output	With RS-232C and the parallel binary coded decimal (BCD), data can be transferred to external devices.
Upper/Lower limit level settings Comparator	Limits can be set in 4 levels (Upper limits (HH, HI), Lower limits (LO, LL)) for criteria for judgment.
Digital display digit	3.5-digit or 4.5-digit can be selected.
Analog output	Analog voltage output in proportion to the displayed value
Auto-zero	Current displayed reading can be changed to Zero, and after that measures the pressure difference.
Zero adjustment	Zero-point adjustment by just pushing a button.
Display hold	Display hold, Peak hold or Bottom hold can be selected.
Keyboard lock	Keyboard lock to prevent false operation.

Models

DP-340BA-**A**-**B**-**C**



For pressure ranges, see the "Pressure Ranges" below.

	Classification.	Code	Description
A	Pressure range		See the "Pressure ranges" below.
	Sensor type	N	Pressure sensor inside (Standard)
		S1	Pressure sensor outside
S2		Pressure sensor outside with drip-proof (Gauge pressure type only)	
B	Sensor cable length	L1	3 m (Standard)
		LX	1 m to 10 m (in units of m)
	Analog output	F1	Analog output F.S.5V
		F2	Analog output F.S.10V
		A	Analog current output 4 to 20 mA
	Interface	Q1	Input of 5V supported (Standard: 24V)
C	With power adaptor (Standard)	VG	AC100V with power cable 3 m
		VH	AC240V with power cable 2 m
	Without power adapter	VJ	Without power adaptor. Separately 24VDC need to be prepared

Pressure Ranges

Range code	Pressure type	Measurement range	Display digit at F.S.	Range code	Pressure type	Measurement range	Display digit at F.S.
5PD	Differential pressure	0 to 500Pa	500	5MG	Gauge pressure	0 to 5MPa	5.00
1KD	Differential pressure	0 to 1kPa	1.000	10MG	Gauge pressure	0 to 10MPa	10.00
2KD	Differential pressure	0 to 2kPa	1.999	20MG	Gauge pressure	0 to 20MPa	19.99
5KD	Differential pressure	0 to 5kPa	5.00	50MG	Gauge pressure	0 to 50MPa	50.0
10KD	Differential pressure	0 to 10kPa	10.00	V1KD	Vacuum differential pressure	0 to -1kPa	-1.000
20KD	Differential pressure	0 to 20kPa	19.99	V2KD	Vacuum differential pressure	0 to -2kPa	-1.999
50KD	Differential pressure	0 to 50kPa	50.0	V5KD	Vacuum differential pressure	0 to -5kPa	-5.00
100KD	Differential pressure	0 to 100kPa	100.0	V10KD	Vacuum differential pressure	0 to -10kPa	-10.00
50KG	Gauge pressure	0 to 50kPa	50.0	V20KD	Vacuum differential pressure	0 to -20kPa	-19.99
100KG	Gauge pressure	0 to 100kPa	100.0	V50KD	Vacuum differential pressure	0 to -50kPa	-50.0
200KG	Gauge pressure	0 to 200kPa	199.9	V100KD	Vacuum differential pressure	0 to -100kPa	-100.0
500KG	Gauge pressure	0 to 500kPa	500	V50KG	Vacuum gauge pressure	0 to -50kPa	-50.0
1MG	Gauge pressure	0 to 1MPa	1.000	V100KG	Vacuum gauge pressure	0 to -100kPa	-100.0
2MG	Gauge pressure	0 to 2MPa	1.999	-	-	-	-

NOTE: Pressure/Vacuum is also available. (500PD,1KD, 2KD, 5KD, 10KD, 20KD, 50KD, 100KD, 50KG, 100KG, 200KG, 500KG)

Specifications

		Differential pressure	Gauge pressure
Pressure media		Air/Noncorrosive gases	Air/Noncorrosive gases and liquid
Sensing element		Beryllium copper	SUS630
Transducer type		Inductance type	Capacitance type
Accuracy	Accuracy	±0.3% of F.S. ±1digit	±0.25% of F.S. ±1digit
	Temperature characteristic: Zero	±0.03% of F.S./ °C	
	Temperature characteristic: Span	±0.03% of F.S./ °C	
Allowable pressure		Ranges 50kPa or lower: Ten times of F.S Range 100kPa: Five times of F.S	Ranges 5MPa or lower: Two times of F.S Other ranges: 1.5 times of F.S
Maximum line pressure		Twice of the proof pressure	
Response time		≤ 300 ms (99% of F.S.)	≤ 30ms (99% of F.S.)
Display digits		3.5 digits 000 to ±1999	
Sampling time		250 ms/50 ms (Toggleable)	
Analog output		0.5, 1 or 2 VDC. The specified voltage corresponding to the reading for the pressure range is output.	
BCD output		Equipped as standard	
Power source		24VDC 0.3A (with 100 to 240VAC power adaptor)	
Operating temperature		5 to 40°C	
Pressure connection port		Rc1/8	
Outline dimensions		140(W) x 66(H) x 172(D) mm	
Panel-cut dimensions		133(W) x 61(H) mm	

* The feature of Saving Method Selection (chs) provided in DP-330BA is not available in DP-340BA.

* The contents in this catalog are as of June 2017. The specifications are subject to change without prior notification.

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