

PRODUCT INFOMATION

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 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.

Overview

- 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
- Comes with the Calibration Certificate of the standard used for pressure calibration

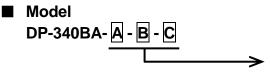
■ Application Examples

- With a wide range of pressures, applicable to various types of tests.
- Easy replacement for 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.)
- Power supply is 24VDC and can be used for 100 to 240VAC with the adapter provided with the DP Gauge.

■ Features

Feature	Description	
Digital Output	With RS-232C and the parallel binary coded decimal (BCD), data can be transferred to external devices.	
Upper/Lower Limits Comparators	Limits can be set in 4 levels (Upper limits (HH, HI), Lower limits (LO, LL)) for criteria for judgment.	
Display Digits	3.5-digit or 4.5-digit can be selected.	
Analog Output *1	The analog voltage corresponding to the Pressure Range is output.	
Auto-Zero	With the current value set to zero, pressure changes after that can be displayed.	
Zero Adjustment	Zero-point adjustment by just pushing a button.	
Hold	Display hold, Peak hold or Bottom hold can be selected.	
Keyboard Lock	Keyboard lock to prevent false operation.	

^{*1} The analog output during Auto-Zero or Hold is not reflected.



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

	Category	Code	Description
Α	Pressure Range See the "Pressure Ranges" bel		See the "Pressure Ranges" below.
		N	Pressure sensor inside (Standard)
	Sensor Type	S1	Pressure sensor outside
Serisor Type		S2	Pressure sensor outside with drip-proof
		32	(Gauge pressure type only)
В	B Sensor Cable Length		3 m (Standard)
	Serisor Cable Length	LX	1 m to 10 m (in units of m)
		F1	Analog output F.S. 5 V
	Analog Output *2	F2	Analog output F.S. 10 V
			Analog current output 4 to 20 mA
	Interface C		Input of 5 V supported (Standard: 24 V)
	With power adapter		AC100 V with power cord 3 m
С	(Standard)	VH	AC240 V with power cord 2 m
	Without power adapter	٧J	Without power adapter. Separately 24 VDC
	williout power adapter	٧٥	need to be prepared

*2 The analog output during Auto-Zero or Hold is not reflected.

Pressure Ranges

Code	Pressure Type	Range	Display Digits at F.S.	Code	Pressure Type	Range	Display Digits at F.S.
5PD	Differential pressure	0 to 500 Pa	500	5MG	Gauge pressure	0 to 5 MPa	5.00
1KD	Differential pressure	0 to 1 kPa	1.000	10MG	Gauge pressure	0 to 10 MPa	10.00
2KD	Differential pressure	0 to 2 kPa	1.999	20MG	Gauge pressure	0 to 20 MPa	19.99
5KD	Differential pressure	0 to 5 kPa	5.00	50MG	Gauge pressure	0 to 50 MPa	50.0
10KD	Differential pressure	0 to 10 kPa	10.00	V5PD	Vacuum differential pressure	-500 Pa to 0	-500
20KD	Differential pressure	0 to 20 kPa	19.99	V1KD	Vacuum differential pressure	-1 kPa to 0	-1.000
50KD	Differential pressure	0 to 50 kPa	50.0	V2KD	Vacuum differential pressure	-2 kPa to 0	-1.999
100KD	Differential pressure	0 to 100 kPa	100.0	V5KD	Vacuum differential pressure	-5 kPa to 0	-5.00
50KG	Gauge pressure	0 to 50 kPa	50.0	V10KD	Vacuum differential pressure	-10 kPa to 0	-10.00
100KG	Gauge pressure	0 to 100 kPa	100.0	V20KD	Vacuum differential pressure	-20 kPa to 0	-19.99
200KG	Gauge pressure	0 to 200 kPa	199.9	V50KD	Vacuum differential pressure	-50 kPa to 0	-50.0
500KG	Gauge pressure	0 to 500 kPa	500	V50KG	Vacuum gauge pressure	-50 kPa to 0	-50.0
1MG	Gauge pressure	0 to 1 MPa	1.000	V100KD	Vacuum differential pressure	-100 kPa to 0	-100.0
2MG	Gauge pressure	0 to 2 MPa	1.999	V100KG	Vacuum gauge pressure	-100 kPa to 0	-100.0

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

SPECIFICATIONS

	Differential Pressure	Gauge Pressure	
Pressure Media	Air and noncorrosive gases	Air/Noncorrosive gases and liquid	
Sensing Element	Beryllium copper	SUS630	
Transducer Type	Inductance type	Capacitance type	
Accuracy	±0.3% of F.S. ±1 digit	±0.25% of F.S. ±1 digit	
Temperature Characteristic: Zero	±0.03 % of F.S./°C		
Temperature Characteristic: Span	±0.03 % of F.S./°C		
Proof Pressure	Ranges 50 kPa or lower: 10 x F.S.	Ranges 5 MPa or lower: 2 x F.S.	
1 10011 1033410	Range 100 kPa: 5 x F.S.	Others ranges: 1.5 x F.S.	
Maximum Line pressure	2 x Proof pressure	-	
Response Time	≤ 300 ms (99% of F.S.)	≤ 30 ms (99% of F.S.)	
Display digits	3.5 digits 000 to ±1999		
Sampling Time	250 ms / 50 ms (Togglable)		
Analog Output *3	The analog voltage 0.5, 1 or 2 VDC corresponding to the Pressure Range is outp		
BCD Output	Equipped a	s standard	
Power Source	24 VDC 0.3A (100 to 240 VAC adapter included)		
Operating Temperature	5 to 40°C		
Pressure Inlet Port	Rc1/8		
Outline Dimensions	140(W)x66 (H)x172(D) mm		
Panel Cutout Dimensions	133 (W) x 61(H) mm		

^{*3} The analog output during Auto-Zero or Hold is not reflected.

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

Since the lowest calibration point for all the Cosmo products is -90 kPa, the guaranteed range is down to -90 kPa as well. The contents in this document are as of July 2020. The specifications are subject to change without prior notice

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