

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-340
DP-340B
DP GAUGE**



DP-340



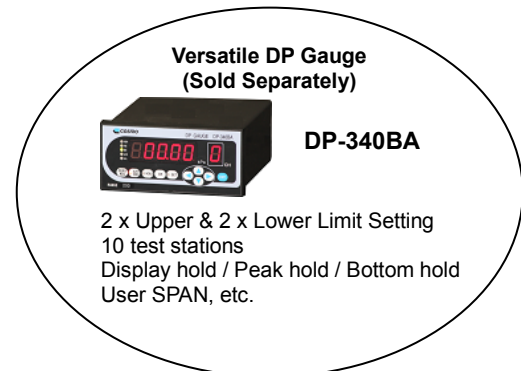
DP-340B with Upper/Lower Limit Setting & Auto-Zero

■ Features

- Big LED display, easy to read even from distant area
- Certified world-class high reliability.
- Built-in pressure sensor (Sensor separate model is also available)
- Easy replacement for DP-320 and DP-330
- Comes with the Calibration Certificate of the standard used for pressure calibration
- Power supply is 24VDC and can be used for 100 to 240VAC with the adapter provided with the DP Gauge.

■ Application Examples

- 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
- Others



■ Features

●: Equipped Δ: Option N/A: Not available

Item	Description	DP-340	DP-340B
Large LED Display	Maximum Display 1999 / Red 7 segment LED / Digit Height 15 mm	●	●
Zero Adjustment	Zero-point adjustment by just pushing a button.	●	●
Keyboard Lock	Keyboard lock to prevent false operation.	●	●
Analog Output *1	The analog voltage corresponding to the Pressure Range is output.	●	●
24 VDC Power Source	(100 to 240 VAC) 24 VDC Power source adapter	●	●
Upper/Lower Limits Comparators	Upper limit (HI), Lower limit (LO), Alarm setting, HI, IN, LO external output	N/A	●
Auto-Zero	With the current value set to zero, pressure changes after that can be displayed.	*2 Δ	●
BCD Digital Output	Parallel BCD digital output, Data transfer to external instruments	Δ	●
Hold	Hold specific reading value by external signal	*2 Δ	●

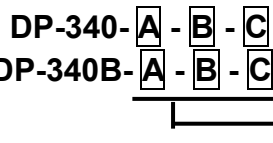
*1 The analog output during Auto-Zero or Hold is not reflected.

*2 Operates by external operation when BCD option is selected (DP-330 compatible)

Model

Display only

With Upper/Lower limits DP-340B-A-B-C



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

	Classification	Code	Description
A	Pressure Range		See the "Pressure Ranges" below.
B	Sensor Type	N	Pressure sensor inside (Standard)
		S1	Pressure sensor outside
		S2	Pressure sensor outside with drip-proof (Gauge pressure type only)
C	Other Options	B	(DP-340 only) BCD option
		F1	Analog Output F.S.5V *2
		F2	Analog Output F.S.10V *2
		A	Analog current output 4 to 20 mA
C	With power adapter (Standard)	VG	AC100 V with power cord 3 m
		VH	AC240 V with power cord 2 m
	Without power adapter	VJ	Without power adapter. Separately 24 VDC need to be prepared

Pressure Ranges

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

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	
Permissible overpressure	Ranges 50 kPa or lower: 10 x F.S. Range 100 kPa: 5 x F.S.	Ranges 5 MPa or lower: 2 x F.S. Others ranges: 1.5 x F.S.
Maximum Line Pressure	Twice of the proof Pressure	--
Response Time	≤ 300 ms (99% of F.S.)	≤ 30 ms (99% of F.S.)
Number of digital display digits	3.5 digits 000 to ±1999	
Sampling time	250 ms / 50 ms (Toggleable)	
Analog Output *3	The analog voltage 0.5, 1 or 2 VDC corresponding to the Pressure Range is output.	
BCD Output	DP-340B: Equipped as standard / DP-340: Option	
Power Source	24 VDC 0.2A (100 to 240 VAC adapter included)	
Operating Temperature	5 to 40°C	
Pressure Inlet Port	Rc1/8	
Dimensions	140(W)×66 (H)×110(D) mm	
Panel-cut Dimensions	133 (W) x 61(H) mm	

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

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 notice.

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