

BAROCEL 7045 CAPACITANCE DIAPHRAGM GAUGE

The Barocel 7045 heated capacitance gauge gives the greatest accuracy in the harshest environments.

With a fast heat up (to a constant 45°C) and a surface that is safe to touch, these are the most advanced capacitive gauges available on the market. Utilising the corrosion resistant ceramic sensing cell (with total alumina coating) found across the 7000 series along with the integrated baffle and sensor protection these sensors are truly fit and forget.



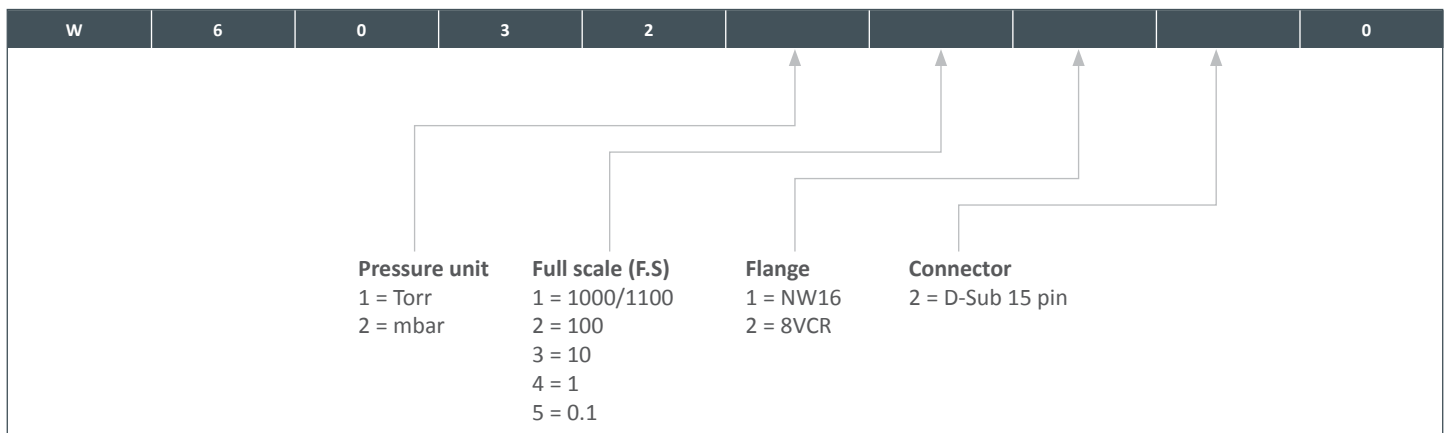
Features and benefits

- 0.1 to 1000 torr variants
- Fast reaction time
- Corrosion resistant sensor
- Zero maintenance
- Fantastic zero and full scale stability
- Temperature compensated

Typical applications

- High temperature coating
- Dry etch
- Sterilization
- General high temperature vacuum applications
- Oxidation
- CVD/PVD/etch
- Industrial

Barocel 7045 selection tree



Technical data

Performance		7045		
FS options	1000(1100)	100/10/1	0.1	
Accuracy (% of reading)	0.15	0.15	0.15	
Temperature effect				
On zero (percentage FS/°C)	0.0025	0.0025	0.005	
On span (% of reading/°C)	0.01	0.01	0.01	
Resolution (percent FS)	0.003	0.003	0.003	
Lowest reading (percent FS)	0.05	0.05	0.05	
Admissible temps				
Ambient(°C)	+10 to +40	+10 to +40	+10 to +40	
Bakeout (at flange) (°C)	<110	<110	<110	
Storage (°C)	-20 to +65	-20 to +65	-20 to +65	
Pressure max (kPa) absolute	400	260	130	
Supply voltage V (dc)	+14 to +30 or +-15V	+14 to +30 or +-15V	+14 to +30 or +-15V	
Power consumption during heat up (W)	<12	<12	<12	
Power consumption at operating temperature (W)	<8	<8	<8	
Output signal V (dc)	0 to +10	0 to +10	0 to +10	
Response time (ms)	30	30	30	
IP rating	40	40	40	
Dimensions (NW16 & D-sub 15pin)	82x82x142	82x82x142	82x82x142	
Materials exposed to vacuum	Aluminium oxide ceramic (Al2O3), stainless steel (AISI 316L)			
Set points				
Number of	2	2	2	
Relay contact (V (dc))	30	30	30	
Hysteresis (percent F.S)	1	1	1	

Ordering information

Accessory	Order number
TIC instrument controller 6 head capman	D39702000
TIC adaptor cable for Barocel	D40003050

Connection cable options	Order number
0.5 m	D40001005
1 m	D40001010
3 m	D40001030
5 m	D40001050
10 m	D40001100
15 m	D40001150
25 m	D40001250
50 m	D40001500

GLOBAL CONTACTS

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