

# BAROCEL 7100 CAPACITANCE DIAPHRAGM GAUGE

The Barocel 7100 heated capacitance gauge gives a high accuracy in harsh environments, without needing to worry about condensation.

With a fast heat up (to a constant 100°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.



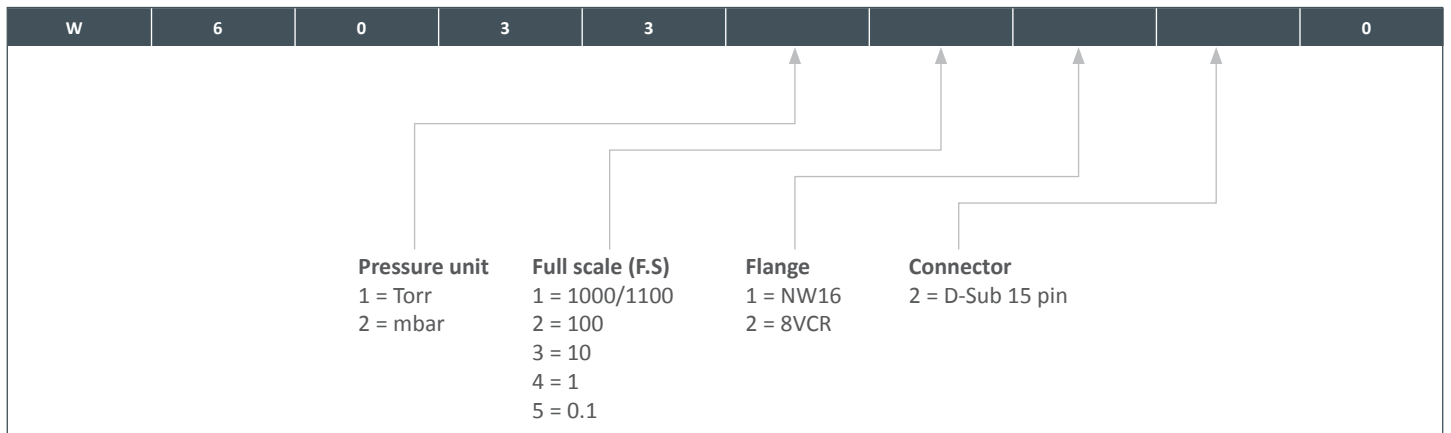
### Features and benefits

- 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 7100 selection tree



Technical data

Performance	7100		
FS options	1000(1100)	100/10/1	0.1
Accuracy (% of reading)	0.2	0.2	0.4
<b>Temperature effect</b>			
On zero (percentage FS/°C)	0.0025	0.0025	0.005
On span (% of reading/°C)	0.02	0.02	0.02
Resolution (percent FS)	0.003	0.003	0.003
Lowest reading (percent FS)	0.05	0.05	0.05
<b>Admissible temps</b>			
Ambient(°C)	+10 to + 50	+10 to + 50	+10 to +50
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)	<15	<15	<15
Power consumption at operating temperature (W)	<10	<10	<10
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)		
<b>Set points</b>			
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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