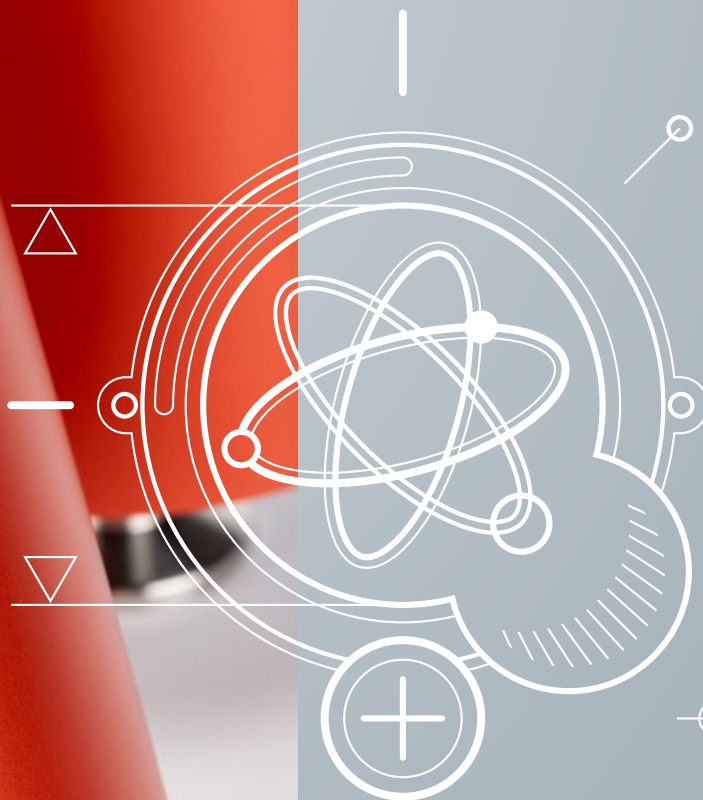


# BAROCEL 7000 SERIES CAPACITANCE GAUGES







## EDWARDS THE PARTNER OF CHOICE

Edwards is a world leader in the design, technology and manufacture of vacuum gauges and pumps, with over 100 years' history and more than 80 years' manufacturing experience.

We believe in delivering results that bring value to our customers by using our breadth of industry experience to identify and apply solutions to your problems. With our wide range of vacuum gauges we can deliver you a solution tailored to your application. And now with the Barocel range we can offer an unprecedented level of accuracy.

## CONTROL AND STABILITY

Edwards Barocel 7000 series is our most accurate offering ever in vacuum gauging

Barocel Gauges have been introduced based on customers needs for ever more accurate measurement and control of systems. With ambient and heated offerings we can offer superior performance and reliability that means you can fit and forget it.

### Superior performance

Excellent zero stability and accuracy

### System enhancement

Simple integration with dual set points for enhanced control

### Flexible solutions

From compact to heated and everything between

### Low cost of ownership

Zero maintenance required



7025m



7025



7045, 7100

## Applications

### Semiconductor

- Load lock, PVD, CVD, Etch

### High energy physics

- Beam lines, accelerators, laser evacuation, medical systems

### Analytical

- Mass spectrometry and electron microscopy

### Quality & control

- Reference vacuum, batch control

### Industrial

- Coating systems, furnaces, sterilisation, food processing, oxidation

You can be assured Edwards has the application expertise and vacuum solution to meet your needs.



# ADVANCED TECHNOLOGY

The Barocel 7000 series has 3 main variants, the 7025m, the 7025 and the 7045/7100. These are available in a range of full-scales from 1000 to 0.1 mbar/torr (100 to 10 for the 7025m) and with a number of flange options. This enables pressure measurement and control over 7 decades and simplicity when fitting to your system.



### Barocel 7025m - miniaturised accuracy

For those who need measurement accuracy on a budget, the 7025m is the gauge for you. Built on the same principles as the higher end Barocel 7000 gauges, this shares its ceramic sensing technology and excellent zero stability. Recognising the market need for a smaller more cost effective solution, this provides you with the first step on the way to a more efficient system.



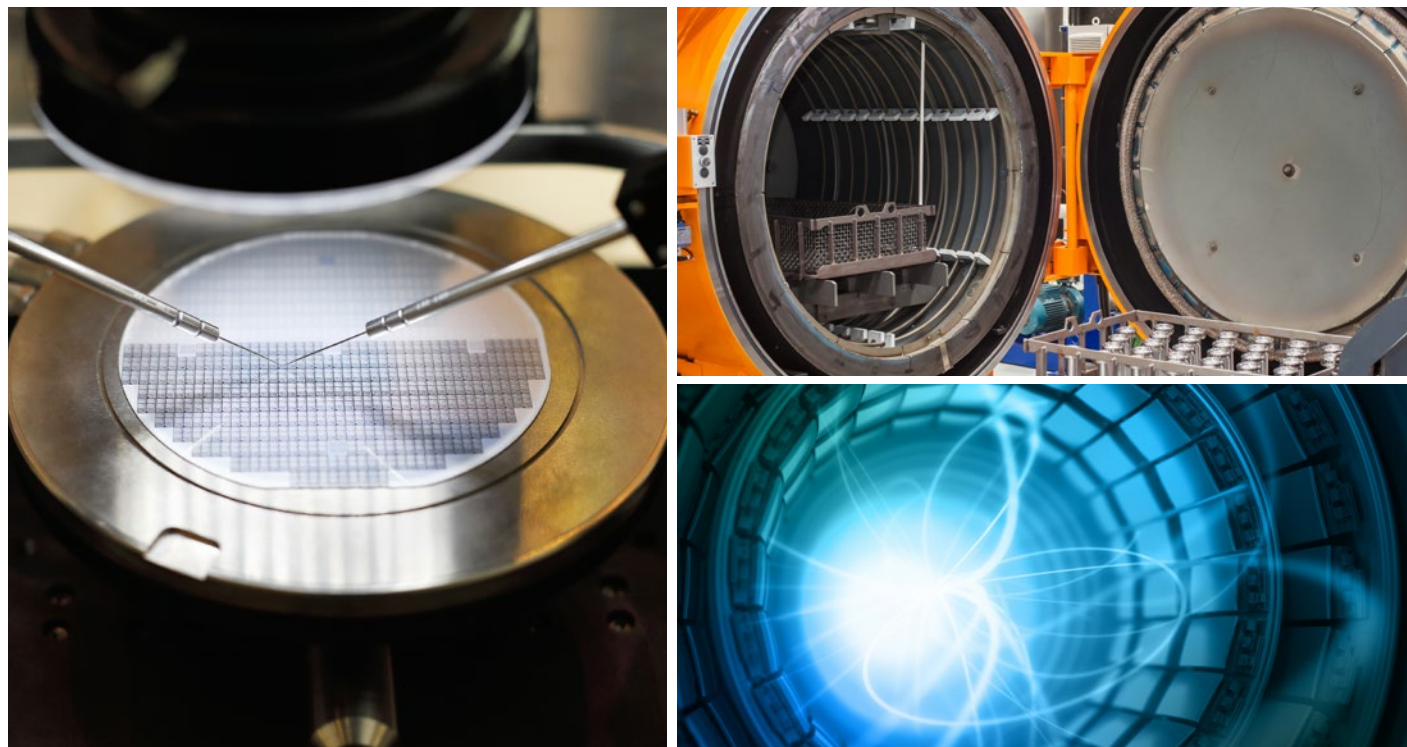
### Barocel 7025 - benchmark performance

Designed to give repeatable high performance, this is the gauge which sets the standard in a wide range of applications. Giving high levels of accuracy, it has been designed to be fit and forget, with multiple levels of internal protection; Baffle, coatings and shielding fitted as standard along with the excellent zero stability and any orientation mounting.



### Barocel 7045 & 7100 - temperature control

Using the same measuring cell found in the 7025, these gauges then have integrated heaters to hold the gauges at fixed temperatures. For applications with harsh gasses, where condensation could cause issue, we have implemented two levels of heated gauges. Heated to steady temperatures of either 45°C (7045) or 100°C (7100), these provide you with piece of mind that you will not get condensates in the gauge that could lead to damage to your control network.



## Technical specifications

	7025m	7025		7045		7100		
<b>FS options</b>	1000/100/10	1000/100/10	1	0.1	1000/100/10/1	0.1	1000/100/10/1	0.1
<b>Accuracy (% of reading)</b>	1	0.2		0.5	0.15	0.15	0.2	0.4
<b>Temperature effect</b>								
<b>On zero (percentage FS/°C)</b>	0.02	0.005	0.015	0.02	0.0025	0.005	0.0025	0.005
<b>On span (% of reading/°C)</b>	0.02	0.01		0.03	0.01		0.02	
<b>Resolution (percent FS)</b>	0.05	0.003			0.003		0.003	
<b>Lowest reading (percent FS)</b>	0.05	0.05			0.05		0.05	
<b>Admissible temps</b>								
<b>Ambient (°C)</b>	0 to +70	+5 to +50			+10 to +40		+10 to +50	
<b>Bakeout (at flange) (°C)</b>	<110	<110			<110		<110	
<b>Storage (°C)</b>	-20 to +85	-40 to +65			-20 to +65		-20 to +65	
<b>Burst pressure (bar) absolute</b>	6	5			6		6	
<b>Supply voltage V (dc)</b>	+13 to +30	+13 to +30			+14 to +30 or +-15V		+14 to +30 or +-15V	
<b>Power consumption</b>								
<b>During heat up (W)</b>	N/A	N/A			<12		<15	
<b>At normal operation (W)</b>	<0.3	<1			<8		<10	
<b>Output signal V (dc)</b>	+0 to +10	+0 to +10			+0 to +10		+0 to +10	
<b>Response time (ms)</b>	100	30			30		30	
<b>IP rating</b>	40	30			40		40	
<b>Dimensions NW16 (mm)</b>	28.3x28.3x99	55x55x113			82x82x142		82x82x142	
<b>Set points</b>								
<b>Numbers of</b>	N/A	2			2		2	
<b>Relay contact (V (dc))</b>	N/A	30			30		30	
<b>Hysteresis (percent F.S)</b>	N/A	1			1		1	
<b>Materials exposed to vacuum</b>	Aluminium oxide ceramic (Al <sub>2</sub> O <sub>3</sub> ), stainless steel 1.4404 (AISI 316L)							





## Global contacts

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