

PRODUCT TECHNICAL BRIEF

CBVAC CM1 Capacitance Diaphragm Vacuum Gauge

CBVAC CM1 Capacitance Diaphragm Vacuum Gauge - LeakLab solutions for leak testing, vacuum systems and test equipment.

[Open the current source page](#)



Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Available full-scale ranges stated in source record	0.1, 0.25, 1, 2, 10, 20, 100, 500 and 1000 Torr
Accuracy stated for applicable 45 °C versions	±0.12% of reading; confirm range and temperature conditions
Resolution	0.001% of full scale
Response time	<20 ms
Temperature-control options	Unheated, 45 °C or 100 °C
Analog output	0-10 V DC; load >10 kΩ
Supply	±15 V DC ±5%; current depends on heater configuration
Electrical connector	DB15 male in the source configuration
Process connections	KF16, KF25, CF16, CF35, 8VCR, 8VCO, 1/2-inch tube and 3/8-inch VCR options stated in source record
Maximum overpressure stated in source record	310 kPa
Wetted material stated in source record	Corrosion-resistant nickel alloy
Warm-up	2 h for full scales ≥1 Torr; 4 h for lower ranges in the source record

Technical and Project Information

Absolute-pressure capacitance diaphragm gauge offered in full-scale ranges from 0.1 to 1000 Torr. The CM1 uses a gas-species-independent measurement principle, a linear 0-10 V output and unheated, 45 °C or 100 °C temperature-control configurations.

CBVAC CM1 Capacitance Diaphragm Gauge

The CM1 measures absolute pressure from diaphragm deflection and capacitance change. This mechanical pressure principle is substantially independent of gas thermal properties, while chemical compatibility depends on the complete set of wetted materials.

The chosen full scale determines usable resolution, zero stability and overload behavior. A 1000 Torr gauge and a 0.1 Torr gauge are different instruments, not one auto-ranging sensor.

Confirm full scale, heating temperature, wetted materials, fitting, power, connector pinout, accuracy basis, zeroing procedure and calibration certificate before ordering. Do not use a measurement output as the sole safety interlock without an independent risk assessment.

- Helium Reference Leaks
- Scanning Electron Microscopes
- Vacuum Gauges ASAIR Vacuum Gauges CBVAC Vacuum Gauges KYKY Vacuum Gauges Meradat VIT Vacuum Gauges Quadrupole Mass Spectrometers Vacuum Gauges for Cryogenic Vessels
- ASAIR Vacuum Gauges
- CBVAC Vacuum Gauges
- KYKY Vacuum Gauges
- Meradat VIT Vacuum Gauges
- Quadrupole Mass Spectrometers
- Vacuum Gauges for Cryogenic Vessels
- Leak-Detector Accessories

WORLDWIDE PROJECT CONTACT

Send the test object or system, operating conditions, target sensitivity or pressure range, applicable standard, destination country, quantity and schedule. LeakLab will review the project scope.

mail@leaklab.org

Regarding: CBVAC CM1 Capacitance Diaphragm Vacuum Gauge

Specifications, standards, verification scope, availability and commercial terms must be confirmed for the exact configuration and destination jurisdiction before order or project acceptance.