

Beamex EXT

EXTERNAL PRESSURE MODULES



Increased usability with EXT modules

The Beamex EXT external pressure modules introduce new configuration possibilities and add flexibility, as it is possible to calibrate more pressure ranges with the same calibrator. This way, the Beamex calibration equipment meets your needs even better. Beamex offers a wide range of external pressure modules – from vacuum to 1000 bar / 14 500 psi. External pressure modules are compatible with Beamex MC6, MC5, MC4, MC2 MC5-IS, MC2-IS and MC5P calibrators.

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External pressure modules

MODULES ¹⁾	RANGE ²⁾	RESOLUTION	ACCURACY ³⁾ (±)	1 YEAR UNCERTAINTY ⁴⁾ (±)
EXT B EXT B-IS	80 to 120 kPa a 800 to 1200 mbar a 11.6 to 17.4 psi a	0.01 0.1 0.001	0.03 kPa 0.3 mbar 0.0044 Psi	0.05 kPa 0.5 mbar 0.0073 psi
EXT10mD EXT10mD-IS	±1 kPa diff ±10 mbar diff ±4 iwc diff	0.0001 0.001 0.001	0.05% Span	0.05% Span + 0.1% RDG
EXT100m EXT100m-IS	0 to 10 kPa 0 to 100 mbar 0 to 40 iwc	0.0001 0.001 0.001	0.015% FS + 0.0125% RDG	0.025% FS + 0.025% RDG
EXT400mC EXT400mC-IS	±40 kPa ±400 mbar ±160 iwc	0.001 0.01 0.001	0.01% FS + 0.0125% RDG	0.02% FS + 0.025% RDG
EXT1C EXT1C-IS	±100 kPa ±1 bar -14.5 to 15 psi	0.001 0.00001 0.0001	0.007% FS + 0.0125% RDG	0.015% FS + 0.025% RDG
EXT2C EXT2C-IS	-100 to 200 kPa -1 to 2 bar -14.5 to 30 psi	0.001 0.00001 0.0001	0.005% FS + 0.01% RDG	0.01% FS + 0.025% RDG
EXT6C EXT6C-IS	-100 to 600 kPa -1 to 6 bar -14.5 to 90 psi	0.01 0.0001 0.001	0.005% FS + 0.01% RDG	0.01% FS + 0.025% RDG
EXT20C EXT20C-IS	-100 to 2000 kPa -1 to 20 bar -14.5 to 300 psi	0.01 0.0001 0.001	0.005% FS + 0.01% RDG	0.01% FS + 0.025% RDG
EXT60 EXT60-IS	0 to 6000 kPa 0 to 60 bar 0 to 900 psi	0.1 0.001 0.01	0.005% FS + 0.0125% RDG	0.01% FS + 0.025% RDG
EXT100 EXT100-IS	0 to 10 MPa 0 to 100 bar 0 to 1500 psi	0.0001 0.001 0.01	0.005% FS + 0.0125% RDG	0.01% FS + 0.025% RDG
EXT160 EXT160-IS	0 to 16 MPa 0 to 160 bar 0 to 2400 psi	0.0001 0.001 0.01	0.005% FS + 0.0125% RDG	0.01% FS + 0.025% RDG
EXT250 EXT250-IS	0 to 25 MPa 0 to 250 bar 0 to 3700 psi	0.001 0.01 0.1	0.007% FS + 0.0125% RDG	0.015% FS + 0.025% RDG
EXT600 EXT600-IS	0 to 60 MPa 0 to 600 bar 0 to 9000 psi	0.001 0.01 0.1	0.007% FS + 0.01% RDG	0.015% FS + 0.025% RDG
EXT1000 EXT1000-IS	0 to 100 MPa 0 to 1000 bar 0 to 15000 psi	0.001 0.01 0.1	0.007% FS + 0.01% RDG	0.015% FS + 0.025% RDG

Temperature coefficient ±0.001% Rdg/ °C outside 15...35 °C (59...95 °F)
INT10mD / EXT10mD < ±0.002% Span/ °C outside 15...35 °C (59...95 °F)

1) IS version available for all external pressure modules

2) Every internal/external pressure module's range may also be displayed in absolute pressure if the Barometric Module (B) is installed.

3) 'Accuracy' includes hysteresis, nonlinearity, repeatability and reference standard uncertainty (k=2).

4) '1 Year Uncertainty' includes hysteresis, nonlinearity, repeatability and typical long-term stability for mentioned period (k=2).

All external pressure modules (EXT) are also compatible with Beamex MC6, MC5, MC4, MC2 and MC5P calibrators. All intrinsically safe external pressure modules (EXT-IS) are compatible with Beamex MC5-IS and MC2-IS calibrators.

Supports the following pressure units as standard:

Pa, hPa, kPa, MPa, mbar, bar, lbf/ft², psi, gf/cm², kgf/cm², kgf/m², kp/cm², at, mmH₂O, cmH₂O, mH₂O, iwc, ftH₂O, mmHg, cmHg, mHg, inHg, mmHg(0 °C), inHg(0 °C), mmHg(4 °C), inHg(4 °C), ftHg(4 °C), inHg(60°F), mmHg(68°F), inHg(68°F), ftHg(68°F), torr, atm.

INT B / EXT B; M5 (10/32") female.

INT10mD and EXT10mD; Two M5 (10/32") female threads with a hose nipple included.

INT100m/EXT100m – INT20C/EXT20C; G1/8" (ISO228/1) female. A conical 1/8" BSP male with 60° internal cone adapter included for Beamex hose set.

INT60, INT100, INT160; G1/8" (ISO228/1) female. EXT60, EXT100, EXT160, EXT250, EXT600, EXT1000; G ¼" (ISO228/1) male.

Wetted parts AISI316 stainless steel, Hastelloy, Nitrile rubber.

Maximum overpressure;

B module; 1200 mbar abs. 10mD module; 200 mbar. EXT600; 900 bar. EXT1000; 1000 bar.

For all other modules, the maximum overpressure is twice the nominal range.

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