

# Beamex MC2

HAND-HELD PROCESS CALIBRATOR



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Practicality in calibration



**beamex**  
A BETTER WAY TO CALIBRATE





beameX MC2

05.05.2016 07:59:06  
① kPa Gauge INT  
**119.66**  
0 50 100 150 200  
② Error % 24V  
**0.727**  
13.6889 A  
Setup ① Setup ② Menu

F1 F2 F3  
1 2 3 0  
4 5 6  
7 8 9  
+/- 0 . ←

Temperature / Generate Measure  
R, RTD V, I,  $\mu$ R R meas V, I,  $\mu$ R  
sense  
+ T/C mV -  
Max 60 V ~ 30 V ~ 100 mA



# MC2: hand-held calibrator for field use

## Practicality in calibration

The MC2 is a compact and easy-to-use hand-held calibrator. It has a large graphical display, a menu-based interface and a full numerical keyboard. The MC2 represents the high, uncompromised quality standards of Beamex calibration equipment.

## Documenting calibrator – Go paperless

The Beamex MC2 is a documenting\* calibrator. This means that it saves calibration results in its memory and communicates with Beamex calibration software (CMX and LOGICAL) for fully paperless flow of calibration data.

Using a documenting calibrator, there is no need for error prone manual entry of calibration results at any step of the calibration process. This saves you time and money, and improves the quality of calibration results.

*\* Since the firmware version 3.20 (released in March 2019) MC2 is a documenting calibrator. This is valid for MC2-MF and MC2-TE models with serial numbers greater than 13000.*

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# The main features of MC2

## Documenting calibrator

The Beamex MC2 is a documenting calibrator and is part of the Beamex Integrated Calibration Solution.

## Compact and user-friendly

The MC2 is a compact, lightweight portable calibrator with large graphical display, multilingual interface and full numerical keyboard. Calibration is quick and simple.

## Accuracy guaranteed

The MC2 is delivered with a traceable, accredited calibration certificate.

## Safe and robust field calibrator

The MC2 with impact protectors and membrane keyboard is robust and made for tough use.

## Wide range of configuration possibilities

The MC2 provides a number of configuration possibilities, such as internal and external pressure modules.



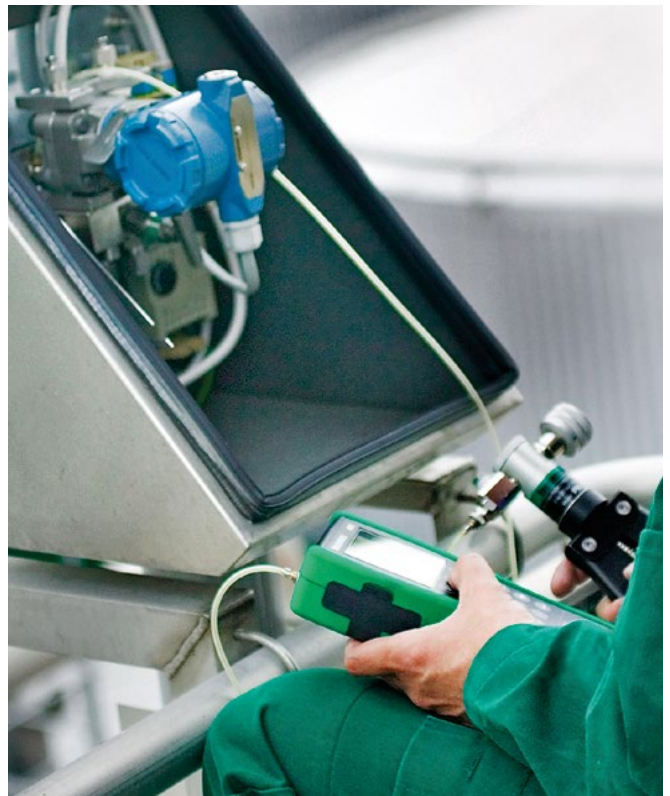
# The MC2 specifications



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## FEATURES

- Internal pressure module
- Connection for external pressure modules
- Current measurement (with internal and external supply)
- Voltage measurement
- Frequency measurement
- Pulse counting
- Switch sensing
- Internal HART compatible 24 VDC loop supply
- Current generation (with internal and external supply)
- Voltage generation
- Frequency generation
- Pulse generation
- mV measurement / simulation
- Resistance measurement / simulation
- RTD measurement / simulation
- TC measurement / simulation



# The MC2 general specifications

## GENERAL SPECIFICATIONS

GENERAL	MC2
Display	60 mm x 60 mm (2.36" x 2.36"), 160 x 160 pixels backlit LCD
Weight	720...830 g (1.59...1.83 lbs)
Dimensions	215 mm (8.5") x 102 mm (4") x 49 mm (1.9") (d/w/h)
Keyboard	Membrane keyboard
Battery type	Rechargeable NiMH, 4000 mAh, 3.6V DC
Charging time	5 hours
Charger supply	100...240 VAC, 50-60 Hz
Battery operation	13...24 hours in measurement mode, back light off. 8...12 hours when sourcing an average of 12 mA to loop, with back light on.
Operating temperature	-10...50 °C (14...122°F)
Operating temperature when charging batteries	0...35 °C (32...95°F)
Storage temperature	-20 to 60 °C (-4 to 140°F)
Humidity	0 to 80% R.H. non condensing
Warmup time	Specifications valid after a 5 minute warmup period.
Max. input voltage	30 V AC, 60 V DC
Safety	Directive 2014/35/EU, EN 61010-1:2010
EMC	Directive 2014/30/EU, EN 61362-1:2013
RoHS compliance	RoHS II Directive 2011/65/EU
Warranty	Standard: 2 years for MC2; 1 year for battery pack. <sup>(1)</sup>

1) Warranty extension programs are also available.

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## VOLTAGE MEASUREMENT -1...60 V DC

RANGE	RESOLUTION	1 YEAR UNCERTAINTY ( $\pm$ ) <sup>(1)</sup>
$\pm 0.25$ V	0.001mV	0.02% RDG + 5 $\mu$ V
$\pm(0.25...1)$ V	0.01 mV	0.02% RDG + 5 $\mu$ V
1...25 V	0.1 mV	0.02% RDG + 0.25 mV
25...60 V	1 mV	0.02% RDG + 0.25 mV

FEATURE	SPECIFICATION
Temperature coefficient	< $\pm 0.0015\%$ RDG / °C outside of 18...28 °C < $\pm 0.0008\%$ RDG / °F outside of 64.4...82.4°F
Input impedance	>1 M $\Omega$
Supported units	V, mV, $\mu$ V
Display update rate	3 / second

## mA MEASUREMENT $\pm 100$ mA

RANGE	RESOLUTION	1 YEAR UNCERTAINTY ( $\pm$ ) <sup>(1)</sup>
$\pm 25$ mA	0.0001 mA	0.02% RDG + 1.5 $\mu$ A
$\pm(25...100)$ mA	0.001 mA	0.02% RDG + 1.5 $\mu$ A

FEATURE	SPECIFICATION
Temperature coefficient	< $\pm 0.0015\%$ RDG / °C outside of 18...28 °C < $\pm 0.0008\%$ RDG / °F outside of 64.4...82.4°F
Input impedance	< 7.5 $\Omega$
Supported units	mA, $\mu$ A
Display update rate	3 / second

## LOOP SUPPLY

FEATURE	SPECIFICATION
Maximum output current	> 25 mA, short circuit protected
Output voltage	24 V $\pm$ 10%
Output impedance in HART compatible mode	300 $\Omega$ $\pm$ 20%

1) Uncertainty includes reference standard uncertainty, hysteresis, non-linearity, repeatability and typical long-term stability for the mentioned period (k=2).

# Electrical measurements

## FREQUENCY MEASUREMENT 0.0027...50 000 Hz

RANGE	RESOLUTION	1 YEAR UNCERTAINTY ( $\pm$ ) <sup>1)</sup>
0.0027...0.5 Hz	0.000001 Hz	0.01% RDG
0.5...5 Hz	0.00001 Hz	0.01% RDG
5...50 Hz	0.0001 Hz	0.01% RDG
50...500 Hz	0.001 Hz	0.01% RDG
500...5000 Hz	0.01 Hz	0.01% RDG
5000...50000 Hz	0.1 Hz	0.01% RDG

FEATURE	SPECIFICATION
Temperature coefficient	Specification valid from -10 to 50 °C (14...122°F)
Input impedance	> 1 M $\Omega$
Trigger level	-1...14 V in 1 V steps and open collector inputs
Minimum signal amplitude	2 Vpp (< 10 kHz), 3 Vpp (10...50 kHz)
Supported units	Hz, kHz, cph, cpm, 1/Hz (s), 1/kHz (ms), 1/MHz ( $\mu$ s)
Gate period	267 ms + 1 signal period

1) Uncertainty includes reference standard uncertainty, hysteresis, non-linearity, repeatability and typical long-term stability for the mentioned period (k=2).

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## PULSE COUNTING 0...9 999 999 PULSES

FEATURE	SPECIFICATION
Range	0 to 9 999 999 pulses
Input impedance	> 1 M $\Omega$
Trigger level	-1...14 V in 1 V steps and open collector inputs
Minimum signal amplitude	2 Vpp (pulse length > 50 $\mu$ s), 3 Vpp (pulse length 10...50 $\mu$ s)

## SWITCH TEST

FEATURE	SPECIFICATION	MC2
Potential free contacts	Test voltage (trigger level)	3 V, 0.13 mA (1 V) or 24 V, 35 mA (2 V)
Voltage level detection	Trigger level Input impedance	-1...14 V in 1 V steps > 1 M $\Omega$



# Pressure measurement

## INTERNAL PRESSURE MODULES (IPM)

INTERNAL MODULE <sup>(3)</sup>	UNIT	RANGE <sup>(2)</sup>	RESOLUTION	1 YEAR UNCERTAINTY ( $\pm$ ) <sup>(1)</sup>
IPM200mC	kPa	$\pm 20$	0.001	0.05% RDG + 0.05% FS
	mbar	$\pm 200$	0.01	
	iwc	$\pm 80$	0.01	
IPM2C	kPa	-100 to 200	0.01	0.05% FS
	bar	-1 to 2	0.0001	
	psi	-14.5 to 30	0.001	
IPM20C	kPa	-100 to 2000	0.1	0.05% FS
	bar	-1 to 20	0.001	
	psi	-14.5 to 300	0.01	
IPM160	MPa	0...16	0.001	0.05% FS
	bar	0...160	0.01	
	psi	0...2400	0.1	
Barometric option	Also enables absolute pressure measurement for the above pressure inputs. When using the barometric option, add 0.1 kPa (0.0146 psi) uncertainty for absolute pressure measurement.			

FEATURE	SPECIFICATION
Temperature coefficient	< $\pm 0.001\%$ RDG / °C outside 15...35 °C. < $\pm 0.0006\%$ RDG / °F outside 59...95°F
Maximum overpressure	2 $\times$ Range
Pressure port	G 1/8" female with G 1/8" male (ISO 228/1) 60° internal cone adapter IPM160: G 1/8" female
Media compatibility	Wetted parts: AISI316 stainless steel, Nitrile rubber
Supported pressure units	Pa, hPa, kPa, MPa, mbar, bar, lbf/ft <sup>2</sup> , psi, ozf/in <sup>2</sup> , gf/cm <sup>2</sup> , kgf/cm <sup>2</sup> , kgf/m <sup>2</sup> , kp/cm <sup>2</sup> , at, mmH <sub>2</sub> O, cmH <sub>2</sub> O, mH <sub>2</sub> O, iwc, ftH <sub>2</sub> O, mmHg, cmHg, mHg, inHg, mmHg(0 °C), inHg(0 °C), mmH <sub>2</sub> O(4 °C; 60°F; 68°F/20 °C), cmH <sub>2</sub> O(4 °C; 60°F; 68°F/20 °C), inH <sub>2</sub> O(4 °C; 60°F; 68°F/20 °C), ftH <sub>2</sub> O(4 °C; 60°F; 68°F/20 °C), torr, atm, + four (4) user-configurable units
Display update rate	2.5 / second

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## EXTERNAL PRESSURE MODULES (EXT) STANDARD ACCURACY

MODULE	RANGE <sup>(2)</sup>	RESOLUTION	1 YEAR UNCERTAINTY ( $\pm$ ) <sup>(1)</sup>
EXT200mC-s	$\pm 200$ mbar	$\pm 80$ iwc 0.01 mbar 0.01 iwc	0.05% RDG + 0.05% FS
EXT2C-s	-1...2 bar	-14.5...30 psi 0.0001 bar 0.001 psi	0.05% FS
EXT20C-s	-1...20 bar	-14.5...300 psi 0.001 bar 0.01 psi	0.05% FS
EXT160-s	0...160 bar	0...2400 psi 0.01 bar 0.1 psi	0.05% FS

## EXTERNAL PRESSURE MODULES (EXT) HIGH ACCURACY

MODULE	RANGE <sup>(2)</sup>	1 YEAR UNCERTAINTY ( $\pm$ ) <sup>(1)</sup>
Barometric	800...1200 mbar abs 23.6...35.4 inHg a	0.5 mbar (0.015 inHg)
EXT10mD	$\pm 10$ mbar differential $\pm 4$ iwc differential	0.1% RDG + 0.05% Span
EXT100m	0...100 mbar gauge 0...40 iwc	0.025% RDG + 0.025% FS
EXT400mC	$\pm 400$ mbar $\pm 160$ iwc	0.025% RDG + 0.02% FS
EXT1C	$\pm 1$ bar -14.5...15 psi	0.025% RDG + 0.015% FS
EXT2C	-1...2 bar -14.5...30 psi	0.025% RDG + 0.01% FS
EXT6C	-1...6 bar -14.5...90 psi	0.025% RDG + 0.01% FS
EXT20C	-1...20 bar -14.5...300 psi	0.025% RDG + 0.01% FS
EXT60	0...60 bar 0...900 psi	0.025% RDG + 0.01% FS
EXT100	0...100 bar 0...1500 psi	0.025% RDG + 0.01% FS
EXT160	0...160 bar 0...2400 psi	0.025% RDG + 0.01% FS
EXT250	0...250 bar 0...3700 psi	0.025% RDG + 0.015% FS
EXT600	0...600 bar 0...9000 psi	0.025% RDG + 0.015% FS
EXT1000	0...1000 bar 0...15000 psi	0.025% RDG + 0.015% FS

1) Uncertainty includes reference standard uncertainty, hysteresis, non-linearity, repeatability and typical long-term stability for the mentioned period (k=2).

2) The internal pressure module's range may also be displayed in absolute pressure if a barometric module is used.

3) The MC2 calibrator can hold one internal pressure module and the barometric option.

All external pressure modules (EXT) are also compatible with Beamex MC4, MC5 and MC6 calibrators.



# Electrical generation, measurement and simulation

## mV MEASUREMENT (T/C-TERMINALS) –25...150 mV

RANGE	RESOLUTION	1 YEAR UNCERTAINTY (±) <sup>(1)</sup>
–25...150 mV	0.001 mV	0.02% RDG + 4 µV

FEATURE	SPECIFICATION
Temperature coefficient	< ±0.0015% RDG / °C outside of 18...28 °C < ±0.0008% RDG / °F outside of 64.4...82.4°F
Input impedance	> 10 MΩ
Supported units	V, mV, µV
Display update rate	3 / second

## mV GENERATION (T/C-TERMINALS) –25...150 mV

RANGE	RESOLUTION	1 YEAR UNCERTAINTY (±) <sup>(1)</sup>
–25...150 mV	0.001 mV	0.02% RDG + 4 µV

FEATURE	SPECIFICATION
Temperature coefficient	< ±0.0015% RDG / °C outside of 18...28 °C < ±0.0008% RDG / °F outside of 64.4...82.4°F
Maximum load current	5 mA
Load effect	< 5 µV/mA
Supported units	V, mV, µV

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## VOLTAGE GENERATION –3...12 V

RANGE	RESOLUTION	1 YEAR UNCERTAINTY (±) <sup>(1)</sup>
±0.25 V	0.01 mV	0.02% RDG + 0.1 mV
–3...–0.25 V	0.1 mV	0.02% RDG + 0.1 mV
0.25...12 V	0.1 mV	0.02% RDG + 0.1 mV

FEATURE	SPECIFICATION
Temperature coefficient	< ±0.0015% RDG / °C outside of 18...28 °C < ±0.0008% RDG / °F outside of 64.4...82.4°F
Maximum load current	5 mA
Load effect	< 50 µV/mA
Supported units	V, mV, µV

## mA GENERATION (SOURCE/SINK) 0...25 mA

RANGE	RESOLUTION	1 YEAR UNCERTAINTY (±) <sup>(1)</sup>
0...25 mA	0.0001 mA	0.02% RDG + 1.5 µA

FEATURE	SPECIFICATION
Temperature coefficient	< ±0.0015% RDG / °C outside of 18...28 °C < ±0.0008% RDG / °F outside of 64.4...82.4°F
Max load impedance (source)	750 Ω (0...20 mA), 600 Ω (20...25 mA)
Max loop voltage (sink)	60 V
Supported units	mA, µA

1) Uncertainty includes reference standard uncertainty, hysteresis, non-linearity, repeatability and typical long-term stability for the mentioned period (k=2).



## RESISTANCE MEASUREMENT 0...4000 Ω

RANGE	RESOLUTION	1 YEAR UNCERTAINTY (±) <sup>(1)</sup>
0...250 Ω	1 mΩ	4-wire connection: 0.02% RDG + 3.5 mΩ 3-wire connection: 0.02% RDG + 13.5 mΩ
250...2650 Ω	10 mΩ	
2650...4000 Ω	100 mΩ	

FEATURE	SPECIFICATION
Temperature coefficient	< ±0.0015% RDG / °C outside of 18...28 °C < ±0.0008% RDG / °F outside of 64.4...82.4°F
Measurement current	Pulsed, bi-directional 1 mA (0..500 Ω), 0.2 mA (>500 Ω)
Supported units	Ω, kΩ
Display update rate	3 / second

## RESISTANCE SIMULATION 0...4000 Ω

RANGE	RESOLUTION	1 YEAR UNCERTAINTY (±) <sup>(1)</sup>
0...400 Ω	10 mΩ	0.04% RDG or 30 mΩ (Whichever is greater)
400...4000 Ω	100 mΩ	0.04% RDG or 30 mΩ (Whichever is greater)

FEATURE	SPECIFICATION
Temperature coefficient	< ±0.0015% RDG / °C outside of 18...28 °C < ±0.0008% RDG / °F outside of 64.4...82.4°F
Maximum resistance excitation current	5 mA (0...650 Ω) $I_{exc} \times R_{sim} < 3.25 \text{ V}$ (650...4000 Ω)
Settling time (pulsed currents)	1 ms
Supported units	Ω, kΩ

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## FREQUENCY GENERATION 0.0005...10 000 Hz

RANGE	RESOLUTION	1 YEAR UNCERTAINTY (±) <sup>(1)</sup>
0.0005...0.5 Hz	0.000001 Hz	0.01% RDG
0.5...5 Hz	0.00001 Hz	0.01% RDG
5...50 Hz	0.0001 Hz	0.01% RDG
50...500 Hz	0.001 Hz	0.01% RDG
500...5000 Hz	0.01 Hz	0.01% RDG
5000...10000 Hz	0.1 Hz	0.01% RDG

FEATURE	SPECIFICATION
Temperature coefficient	Specification valid from -10 to 50 °C (14...122°F)
Maximum load current	5 mA
Output amplitude positive square wave	0...12 Vpp ±(0.2 V+5%)
Output amplitude symmetric square wave	0...6 Vpp ±(0.2 V+5%)
Duty cycle	1...99% (0.0009...500 Hz), high / low time: min 25µs, max 1165 s
Supported units	Hz, kHz, cph, cpm, 1/Hz (s), 1/kHz (ms), 1/MHz (µs)
Jitter	< 0.28 µs

## PULSE GENERATION 0...9 999 999 PULSES

FEATURE	SPECIFICATION
Range	0 to 9 999 999 pulses
Resolution	1 pulse
Maximum load current	5 mA
Output amplitude positive pulse	0...12 Vpp ±(0.2 V+5%)
Output amplitude symmetric pulse	0...6 Vpp ±(0.2 V+5%)
Pulse frequency	0.0005...10 000 Hz
Duty cycle	1...99% (0.0009...500 Hz), high / low time: min 25µs, max 1165 s

1) Uncertainty includes reference standard uncertainty, hysteresis, non-linearity, repeatability and typical long-term stability for the mentioned period (k=2).

# THERMOCOUPLE MEASUREMENT AND SIMULATION

## Thermocouple types available as standard

TYPE	RANGE (°C)	RANGE (°C)	1 YEAR UNCERTAINTY (±) <sup>(1)</sup>
B <sup>(2)</sup>	0...1820	0...200	<sup>(3)</sup>
		200...400	2.0 °C
		400...1820	1.0 °C
R <sup>(2)</sup>	-50...1768	-50...0	1.0 °C
		0...100	0.8 °C
		100...1768	0.6 °C
S <sup>(2)</sup>	-50...1768	-50...0	1.0 °C
		0...1768	0.7 °C
E <sup>(2)</sup>	-270...1000	-270...-200 -200...1000	<sup>(3)</sup> 0.25 °C
J <sup>(2)</sup>	-210...1200	-210...1200	0.3 °C
K <sup>(2)</sup>	-270...1372	-270...-200	<sup>(3)</sup>
		-200...1000	0.3 °C
		1000...1372	0.4 °C
N <sup>(2)</sup>	-270...1300	-270...-200	<sup>(3)</sup>
		-200...1300	0.4 °C
T <sup>(2)</sup>	-270...400	-270...-200	<sup>(3)</sup>
		-200...-100	0.3 °C
		-100...400	0.2 °C
U <sup>(4)</sup>	-200...600	-200...-100	0.3 °C
		-100...600	0.2 °C
L <sup>(4)</sup>	-200...900	-200...900	0.25 °C
C <sup>(5)</sup>	0...2315	0...1000	0.4 °C
		1000...2000	0.8 °C
		2000...2315	1.2 °C
G <sup>(6)</sup>	0...2315	0...100	<sup>(3)</sup>
		100...2315	1.0 °C
D <sup>(5)</sup>	0...2315	0...1000	0.4 °C
		1000...2000	0.8 °C
		2000...2315	1.2 °C

FEATURE	MEASUREMENT	SIMULATION
Resolution	0.01 °C	0.01 °C
Temperature coefficient	< ±0.0015% of thermovoltage / °C outside of 18...28 °C < ±0.0008% of thermovoltage / °F outside of 64.4 ... 82.4°F	< ±0.0015% of thermovoltage / °C outside of 18...28 °C < ±0.0008% of thermovoltage / °F outside of 64.4 ... 82.4°F
Input impedance	>10 MΩ	–
Supported units	°C, °F, K	°C, °F, K
Display update rate	3 / second	–
Maximum load current	–	5 mA
Load effect	–	< 5 µV/mA

## INTERNAL REFERENCE JUNCTION

RANGE (°C)	1 YEAR UNCERTAINTY
-10...50 °C	±0.25 °C

1) Uncertainty includes reference standard uncertainty, hysteresis, non-linearity, repeatability and typical long-term stability for the mentioned period (k=2).

Uncertainty does not include reference junction uncertainty.

2) IEC 584, NIST MN 175, BS 4937, ANSI MC96.1

3) ±0.02% of thermovoltage + 4 µV

4) DIN 43710

5) ASTM E 988 - 96

6) ASTM E 1751 - 95e1



## RTD MEASUREMENT AND SIMULATION

SENSOR TYPE	RANGE	RESOLUTION	MEASUREMENT 1 YEAR UNCERTAINTY ( $\pm$ ) 1	SIMULATION 1 YEAR UNCERTAINTY ( $\pm$ ) <sup>1) 2)</sup>
Pt 50 ... 1000	-200 ... 200 °C	0.01 °C	0.1 °C	0.15 °C
	200 ... 600 °C	0.01 °C	0.2 °C	0.25 °C
	600 ... 850 °C	0.01 °C	0.3 °C	0.35 °C
Ni 100	-60 ... 180 °C	0.01 °C	0.1 °C	0.15 °C
Ni 120	-80 ... 260 °C	0.01 °C	0.1 °C	0.15 °C
Cu10	-200 ... 260 °C	0.01 °C	0.2 °C	0.8 °C

FEATURE	MEASUREMENT	SIMULATION
Temperature coefficient	< $\pm 0.0015\%$ of resistance / °C outside of 18...28 °C < $\pm 0.0008\%$ of resistance / °F outside of 64.4 ... 82.4 °F	< $\pm 0.0015\%$ of thermovoltage / °C outside of 18...28 °C < $\pm 0.0008\%$ of thermovoltage / °F outside of 64.4 ... 82.4 °F
Maximum Resistance excitation current	–	5 mA (0 ... 650 $\Omega$ ) $I_{exc} \times R_{sim} < 3.25$ V (650 ... 4000 $\Omega$ )
Supported units	°C, °F, K	°C, °F, K
Display update rate	3 / second	–

RTD TYPES AVAILABLE AS STANDARD				
Pt50 (385)	Pt400 (385)	Pt100 (3926)	Pt100 (3923)	Cu10 (427)
Pt100 (385)	Pt500 (385)	Pt100 (391)	Ni100 (618)	
Pt200 (385)	Pt1000 (385)	Pt100 (375)	Ni120 (672)	

1) Uncertainty includes reference standard uncertainty, hysteresis, non-linearity, repeatability and typical long-term stability for the mentioned period. (k=2).

2) Specification valid with an excitation current >0.2 mA (0 ... 400  $\Omega$ ), >0.1 mA (400 ... 4000  $\Omega$ )

## STANDARD ACCESSORIES

- User guide
- Calibration certificate
- Internal rechargeable NiMH battery pack + battery charger
- Test leads and clips
- USB cable
- Adapter pressure connector – from G1/8" female to G 1/8" male with 60° internal cone (included in models with internal pressure module)

## OPTIONAL ACCESSORIES

- Pressure T-hose
- Soft carrying case
- Connection cable for external pressure modules
- Dry battery cartridge
- Calibration handpumps

# Beamex MC2

## HAND-HELD PROCESS CALIBRATOR

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The Beamex MC2 is a high-quality hand-held calibrator for field use. The MC2 is a compact and easy-to-use hand-held calibrator. It has a large graphical display, a menu-based interface and full numerical keyboard.

### Documenting calibrator

The Beamex MC2 is a documenting calibrator and is part of the Beamex Integrated Calibration Solution.

### Compact and user-friendly

The MC2 is a compact, lightweight portable calibrator with large graphical display, multilingual interface and full numerical keyboard. Calibration is quick and simple.

### Accuracy guaranteed

The calibrator is delivered with a traceable, accredited calibration certificate.

### Safe and robust field calibrator

The MC2 with impact protectors and membrane keyboard is robust and made for tough use.

### Wide range of configuration possibilities

The MC2 provides a number of configuration possibilities, such as internal and external pressure modules.



### Main features

- ▶ A practical hand-held documenting process calibrator
- ▶ Internal / external pressure modules
- ▶ Compact size and design
- ▶ User-friendly

