

# EUROTRON MICROCAL 200

TYPE: MULTI FUNCTION CALIBRATOR



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Parameter	Resolution	Accuracy
Ni 100, Ni 120	0.1°C	±(0.02% +0.05°C)
mV(L)	1 μV	±(0.02% +2 μV)
mV(H)	10 μV	±(0.02% +10 μV)
V	0.1mV	±(0.02%+0.08mV)
mA(In), (Out)	0.1μA	±(0.02% +0.4μA)
Ω In	1mΩ	±(0.02% +12mΩ)
Ω Out	1mΩ	±(0.02% +20mΩ)
Frequency	0.001,0.01, 0.1Hz	±(0.005%+0.001 Hz)

**APPLICATIONS:** Used to simulate and measure voltage, current, resistance, thermocouple, resistance thermometers, frequency and pulse.

**CODE:** DSEMFCOMCAL2000029.

**MANUAL NO.:** 0029.

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**MULTI FUNCTION CALIBRATOR**

Dimensions	264×96×172mm
Weight	Nett: 4kg
Line operation	100-120-230Vac through external battery charger
Line transformer insulation	2500Vac
Operating temperature	-10°C to +55°C
Storage temperature	-30°C to +60°C
Power supply	External charger and rechargeable Ni-Cd battery
Common mode rejection	>140dB at AC operation
Normal mode rejection	>70dB a 50 or 60Hz
Channel 1- channel 2 insulation	50V dc
In/out data memory	20 data with manual or automatic recall
Measurement sampling time	250ms
Temperature stability( For temperature exceeding the band +18°C to + 28°C)	Full scale : ±8ppm/°C Zero : ±0.2μV/°C
Max load resistance	1000Ω@ 20mA
Output impedance(emf output)	<0.5Ω with 0.5mA max current
Input impedance mV, V and Tc ranges: mA ranges:	>10MΩ <140Ω@1mA

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Reference junction compensation	Reference junction drift	Reference junction error
Internal automatic: -10°C to +55°C External adjustable: -50°C to +100°C Remote with external Pt-100: -10°C to +100°C	±0.015°C/°C (da-10°C a+55°C)	Internal: ±0.15°C Remote: ±0.3°C

RTD and $\Omega$ simulation excitation current	RTD and $\Omega$ measurement excitation current	RTD connection	RTD cable compensation	RTD cable compensation error (Pt-100)
0.01 to 5mA	0.4mA@400 $\Omega$ 0.04mA@4000 $\Omega$	2,3 and 4 wires	Up to 100 $\Omega$ (each wire)	±0.005°C/ $\Omega$ of total wire

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Tc J,K,T,U,L,N,E,F	0.1°C	±(0.02% +0.1°C)
Tc R,S,C	0.1°C	±(0.02% +0.1°C)
Tc B,G,D	0.1°C	±(0.02% +0.3°C)
Pt100 IEC OIML, a3946	0.01°C	±(0.02% +0.5°C)
Pt100 a3902	0.01°C	±(0.02% +0.5°C)
Pt100 JIS SAMA	0.01°C	±(0.02% +0.5°C)
Pt 200	0.1°C	±(0.02% +0.15°C)
Pt 500	0.1°C	±(0.02% +0.1°C)
Pt1000 IEC OIML	0.01°C	±(0.02% +0.1°C)
CU 10	0.1°C	±(0.02% +0.4°C)
CU 100	0.1°C	±(0.02% +0.05°C)