

EasyCal

Low Cost, Single Function Palm-top Simulator

- Compact, rugged and easy to use
- 23 steps direct technical unit setting
- 2 Year warranty
- Alkaline or rechargeable batteries
- Eurotron Report of Calibration



EasyCal are low cost, dedicated function, rugged and easy to use simulators.

They use a low contact resistance rugged 23 position rotative switch to simulate directly in engineering unit. You don't need any conversion table.

EasyCal simulators can be powered with alkaline or rechargeable batteries (EasyCal Rtd are passive devices and therefore don't require power).

The small dimensions (140x72x42 mm) allows you to carry them in field work. The process engineer needs to trust it.

Report of Calibration

Each instrument is factory calibrated and certified by comparison with Eurotron Standards. Eurotron Standards laboratory equipment are periodically certified by an Internationally Accredited Laboratory to ensure instrument traceability. EasyCal are shipped with a Report of calibration stating the nominal and actual values and the deviation errors.

EasyCal represents the tool to keep your test and process equipment adequately calibrated for ISO 9000 compliance.

EMC Compatibility (CE mark)

All Eurotron calibrators are designed and fully tested for conformity with the Directive n.89/336/CEE Electromagnetic Compatibility. The reference normative documents are the following:

EN 50082-2 (3/95)

IEC1000-4-2 [EC1000-4-4 IEC1000-4-11 ENV50140

ENV50141 ENV50204

EN 55011



SPECIFICATIONS

EasyCal mA

Simulation: n.23 current values from 0 to 22 mA into active and passive loop with max load of 1000 Ω
 Accuracy: $\pm(0.1\%$ of value + 1.2 μ A)

EasyCal Tc Type T

Simulation: n. 23 values from -250°C to +400°C
 Accuracy: $\pm(0.1\%$ of value +0.3°C)
 Drift: ± 0.02 °C/°C
 Cold Junction compensation: automatic from -10°C to 50°C
 Cold Junction compensation error: ± 0.5 °C

EasyCal Tc Type J

Simulation: n. 23 values from -100°C to +1200°C
 Accuracy: $\pm(0.1\%$ of value +0.3°C)
 Drift: ± 0.02 °C/°C
 Cold Junction compensation: automatic from -10°C to 50°C
 Cold Junction compensation error: ± 0.5 °C

EasyCal Tc Type K

Simulation: n. 23 values from -100°C to +1200°C
 Accuracy: $\pm(0.1\%$ of value +0.3°C)
 Drift: ± 0.02 °C/°C
 Cold Junction compensation: automatic from -10°C to 50°C
 Cold Junction compensation error: ± 0.5 °C

EasyCal Rtd - 1

Simulation: n. 23 values from -100 to +800°C per Pt100 con $\alpha = 3.85 \cdot 10^{-3}$
 Accuracy: $\pm(0.05\%$ of value +0.3°C)

EasyCal Rtd - 5

Simulation: n. 23 values from -10 to +250°C for Pt100 with $\alpha = 3.85 \cdot 10^{-3}$
 Accuracy: $\pm(0.04\%$ of value +0.1°C)

EasyCal pH

Simulation: of glass electrode 0 to 14 pH (0.5 pH steps) and high impedance insulation tests.
 Accuracy: $\pm(0.1\%$ of value +0.01 pH)

EasyCal PS

Battery supplied module for 2 wires current loop
 Output voltage: 24 Vdc (30 mA max.)

ORDERING CODE

Each instrument is supplied complete of Vinyl case, Report of Calibration and instruction Manual

Cat. A - B*

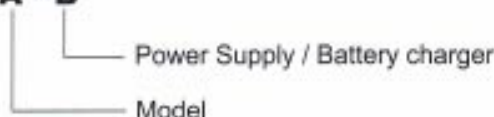


Table A	Model	
3101	EasyCal Tc type T	Thermocouple type T simulator
3102	EasyCal Tc type J	Thermocouple type J simulator
3104	EasyCal Tc type K	Thermocouple type K simulator
3108-1	EasyCal Pt100	-100 to +800°C Pt100 simulator
3108-5	EasyCal Pt100	-10 to +250°C Pt100 simulator
3403	EasyCal mA	0 to 22mA current simulator
3406	EasyCal PS	24 Vdc current loop power supply
3800	EasyCal pH	0 to 14pH glass electrode

Table B	Power supply / Charger *
0	Alkaline batteries / None
1	Rechargeable batteries / 120 V 50/60Hz with USA plug
2	Rechargeable batteries / 230 V 50/60Hz with Schuko plug
3	Rechargeable batteries / 230 V 50/60Hz with UK plug
4	Rechargeable batteries / 230 V 50/60Hz with European plug
5	Rechargeable batteries / 100 V 50/60Hz with Japan/USA plug

* Do not specify Table B for EasyCal Rtd (cat 3108-1/5): Rtd simulation is passive.

COMMON SPECIFICATIONS

Accuracy: All accuracies are stated at 90 days for temperature of 23°C ± 2 °C.
 Typical 1 year accuracy can be estimated by multiplying the % of value* by 1.4.

Report of calibration: Supplied as standard

Working temperature: from -10°C to +60°C (+14°F to +131°F) - 98% RH max.

Storage temperature: from -30°C to +70°C (-22°F to +140°F)

Case: Soft Vinyl supplied as standard

Dimensions: 140 x 70 x 42 mm

Weight: net 0.3 kg gross 0.7 kg

EasyCal simulation steps (°C)

EasyCal Tc T	-250	-200	-150	-100	-50	-30	-20	-10	0	10	20	30	40	60	80	100	120	150	200	250	300	350	400
EasyCal Tc K	-100	-50	-20	-10	0	10	20	30	40	50	60	80	100	150	200	250	300	400	500	600	800	1000	1200
EasyCal Tc J	-100	-50	-20	-10	0	10	20	30	40	50	60	80	100	150	200	250	300	400	500	600	800	1000	1200
EasyCal Rtd-1	-100	-50	-20	-10	0	10	20	30	40	50	60	80	100	150	200	250	300	350	400	500	600	700	800
EasyCal Rtd-5	-10	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	100	150	200	250