

Dry block temperature calibrator LR-Cal/ PYROS series

- Temperature range (at +20°C ambient temperature):
Model **LR-Cal/ PYROS-125**: -24°C...+125°C Order-Code **PYROS-125**
Model **LR-Cal/ PYROS-375**: +30°C...+375°C Order-Code **PYROS-375**
Model **LR-Cal/ PYROS-650**: +35°C...+650°C Order-Code **PYROS-650**
- for 230 VAC and 115 VAC
autorange (**LR-Cal/ PYROS-125**) resp. switchable
- Forr mobile use on site and stationary use
- Thermostat test facility

Typical applications:

- Check and calibrate all kind of thermometers, temperature sensors / probes
- Check and adjust thermostat (temperature switches)



PYROS
230 VAC / 115 VAC

Thanks to the 115 / 230 VAC (50/60 Hz) power supply, the **LR-Cal/ PYROS** series dry block temperature calibrators can be used worldwide.

The **LR-Cal/ PYROS** series are innovative dry block calibrators especially designed for field applications, robust and able to maintain high accuracy and stability in severe conditions such as offshore rigs and on board of vessels. The self contained units are very compact, portable and light weight.

The innovative **forced air ventilation** greatly reduce the cooling time and prevents the sensors under test from being exposed to excessive heating.

The **LR-Cal/ PYROS** series offer an electrical switch test input along with a fully programmable ramp, to perform testing of temperature switches.

**Optional accessories for LR-Cal/ PYROS series:**

IP 65 water tight case
Order-Code **PYROS-KOFFER**



Soft carrying case
Order-Code **PYROS-TASCHE**

Technical Data at 20°C ambient temp.	LR-Cal/ PYROS-125	LR-Cal/ PYROS-375	LR-Cal/ PYROS-650
Temperature range at 20°C ambient temp.r:	-24...+125°C	+30...+375°C	+35...+650°C
Heating time (incl. stability):	from 20°C to 120°C: 20 min.	from 30°C to 375°C: 20 min.	from 50°C to 650°C: 35 min.
Cooling time (incl. stability)	from 20°C to -20°C: 17 min.	from 375°C to 100°C: 40 min.	from 650°C to 100°C: 60 min.
Axial temperature uniformity:	at 40 mm immersion depth: ±0.05°C at -20°C ±0.04°C at 0°C ±0.1°C at 100°C at 60 mm immersion depth: ±0.15°C at -20°C ±0.08°C at 0°C ±0.2°C at 100°C	at 40 mm immersion depth:) ±0.1°C at 50°C) ±0.2°C at 150°C) ±0.3°C at 375°C ±0.02°C at 50°C ±0.05°C at 150°C ±0.15°C at 375°C at 60 mm immersion depth:) ±0.2°C at 50°C) ±0.3°C at 150°C) ±0.9°C at 375°C ±0.03°C at 50°C ±0.08°C at 150°C ±0.25°C at 375°C	at 40 mm immersion depth: **) ±0.13°C at 250°C **) ±0.15°C at 450°C **) ±0.35°C at 650°C at 60 mm immersion depth: **) ±0.17°C at 250°C **) ±0.45°C at 450°C **) ±0.55°C at 650°C
Radial temperature uniformity: (at 40 mm immersion depth)	well-to-well uniformity: ±0.02°C at -20°C ±0.02°C at 0°C ±0.05°C at 100°C	) ±0.1°C at 50°C) ±0.15°C at 150°C) 0.2°C at 375°C	**) ±0.22°C **) **)
Immersion depth (max.):	104 mm	150 mm	150 mm
Well diameter:	2 x 13 mm	26 mm	26 mm
Accuracy::	±0.25°C +1 lsd	±0.25°C at 150°C ±0.5°C at 375°C	±0.9°C +1 lsd
Stability::	±0.05°C	±0.15°C	±0.3°C
Display resolution::	0.1°C	0.1°C	0.1°C
Temperature units:	°C / °F	°C / °F	°C / °F
Switch test::	12 VDC	5 VDC	5 VDC
Dimension::	130 x 260 x 280 mm	130 x 260 x 280 mm	120 x 260 x 280 mm
Weight::	4,9 kg	5,4 kg	6 kg
Power supply (50/60 Hz):	100...230 VAC ±10% 80 W	115 / 230 VAC ±10% switchable, 600 W	115 / 230 VAC ±10% switchable, 600 W

*) measured with Pt 100, diameter 3 mm

**) measured with Pt 100, diameter 6 mm

***) measured with Pt 100, diameter 3 mm

Well inserts

For PYROS-125	Order-Code:	For PYROS-375	Order-Code:	For PYROS-650	Order-Code
blank	PYROS-125-INS-0	blank	PYROS-375-INS-0	blank	PYROS-INS-0
3.2 mm	PYROS-125-INS-032	3.2 + 4.8 + 6.4 + 11.1 mm	PYROS-375-INS-4 *)	3.2 + 5.0 + 6.5 + 9.5 mm	PYROS-INS-4 *)
4 mm	PYROS-125-INS-040	6.4 + 12.7 mm	PYROS-375-INS-2	6.5 + 12.7 mm	PYROS-INS-2
4.8 mm	PYROS-125-INS-048 *)				
6.4 mm	PYROS-125-INS-064 *)				
7.9 mm	PYROS-125-INS-079				
9.5 mm	PYROS-125-INS-095				
11.1 mm	PYROS-125-INS-111				

*) included in standard supply of related PYROS model.

Further included in standard supply:

Electr. pwr cable, spare fuse, electr. cables for switch test, operating manual in English language, traceable certificate of calibration, tweezers for removing inserts.



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