

Dry Block Temperature Calibrators **LR-Cal PYROS** series

- **LR-Cal PYROS-375:** +30°C...+375°C
- **LR-Cal PYROS-650:** +35°C...+650°C
at +20°C ambient temperature

This calibrators are type approved by **DNV-GL** (No. TAA00002CX). For testing and calibrating of all kind of temperature instruments, e.g. dial thermometer, digital thermometer, temperature probes and sensors.

These innovative dry block temperature calibrators have been designed for on-site applications and for the severe conditions of the naval and marine sectors. Their ease of use, compact and practical design, make them unbeatable in industrial processes where the verification of the temperature measurement systems are a key issue for the control of the process and the quality of the final product.

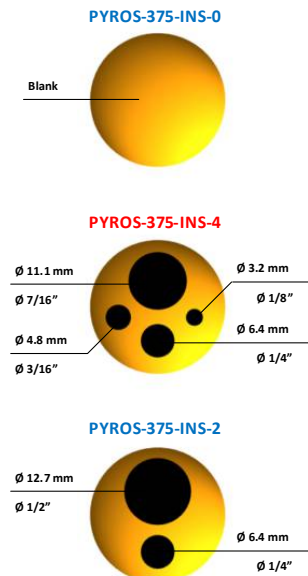
Special attention was paid to reduce the weight, to the small size and sound design obtained by using an aluminium body and aluminium and stainless steel for many internal parts.

The appliance innovative ventilation system allows the calibrator to keep the temperature on the top of the oven lower compared to competitors' oven. The flow of air on the upper part of the oven is diverted to the rear of the appliance by a tangential flow that touches the calibration well. As a result, the heads of the test items remain at a considerably lower temperature reducing very much the compensation errors produced by the heads heating.

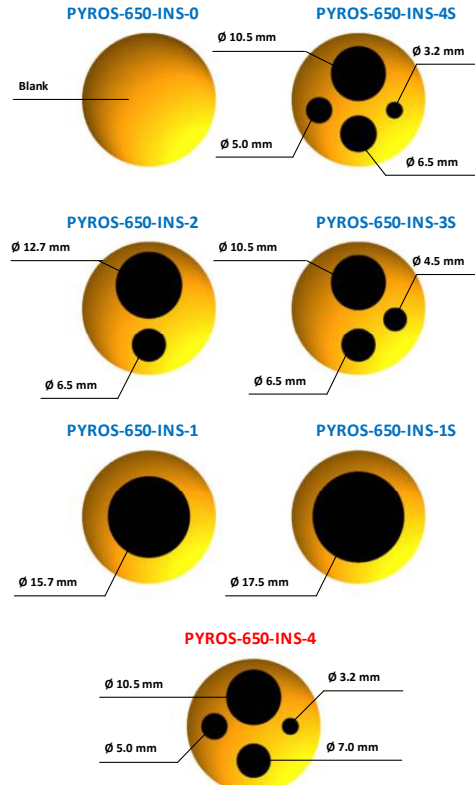


Available block inserts:

LR-Cal PYROS-375 inserts:



LR-Cal PYROS-650 inserts:



Blue = order-code
Red = included in scope of standard delivery

PYROS-375 **Portable Dry Block Temperature**
PYROS-650 **Calibrators with DNV-GL type approval**



TECHNICAL DATA	PYROS-375	PYROS-650
Temperature range	+30...+375°C	+35...+650°C
Mean heating time (incl. stabilization)	20 min. (+30...+375°C)	35 min. (+50...+650°C)
Mean cooling time (incl. stabilization)	40 min. (+375...+100°C)	60 min. (+650...+100°C)
Axial temperature uniformity	a) ±0.10°C at +50°C b) ±0.02°C at +50°C a) ±0.20°C at +150°C b) ±0.05°C at +150°C a) ±0.30°C at +375°C b) ±0.15°C at +375°C	±0.13°C at +250°C ±0.15°C at +450°C ±0.35°C at +650°C
Radial temperature uniformity (at 40 mm depth)	a) ±0.10°C at +50°C b) ±0.05°C at +50°C a) ±0.15°C at +150°C b) ±0.10°C at +150°C a) ±0.20°C at +375°C b) ±0.15°C at +375°C	±0.22°C
Usable insertion depth in the metal block	150 mm	
Hole diameter	26 mm	
Display accuracy	±0.25°C at +150°C ±0.35°C at +375°C	±0.50°C
Stability	a) ±0.15°C b) ±0.10°C	±0.30°C
Display resolution	0.1°C	
Temperature units	°C / °F	
Over temperature cut out	yes	
Thermostat/Switch test	5 VDC	
Display	LED, 2 lines	
Interface	RS232	
Slope rate	yes	
Calibration	From 1 to 10 points calibration	
Dimension	130 x 260 x 280 mm	
Weight	5.4 kg	
Power supply (±10%, 50/60 Hz)	115/230 VAC	
Power consumption	600W	

All values are valid at ambient temperature +20°C

Diameter of the sensor, used for testing the performances:

LR-Cal PYROS-375 : Pt 100 a) diameter 6 mm / b) diameter 3 mm

LR-Cal PYROS-650 : Pt 100 diameter 4,5 mm



Standard scope of delivery

PYROS-375

- Dry block calibrator
- Tweezers for insert removing
- Kit of spare fuses
- Connection cables for thermostat testing
- Operation manual
- Test certificate
- 1 insert with 4 holes
3.2 + 4.8 + 6.4 + 11.1 mm

PYROS-DNV-375



PYROS-650

- Dry block calibrator
- Tweezers for insert removing
- Kit of spare fuses
- Connection cables for thermostat testing
- Operation manual
- Test certificate
- 1 insert with 4 holes
3.2 + 5.0 + 7.0 + 10.5 mm

PYROS-DNV-650



Optional accessories

for PYROS-375

	Order Code
1 blank insert	PYROS-375-INS-0
1 insert with 4 holes 3.2 + 4.8 + 6.4 + 11.1 mm	PYROS-375-INS-4
1 insert with 2 holes 6.4 + 12.7 mm	PYROS-375-INS-2
1 soft bag	PYROS-TASCHE
1 plastic marine case IP67	PYROS-KOFFER

for PYROS-650

	Order Code
1 blank insert	PYROS-650-INS-0
1 insert with 2 holes 6.5 + 12.7 mm	PYROS-650-INS-2
1 insert with 3 holes 4.5 + 6.5 + 10.5 mm	PYROS-650-INS-3S
1 insert with 4 holes 3.2 + 5.0 + 7.0 + 10.5 mm	PYROS-650-INS-4
1 insert with 4 holes 3.2 + 5.0 + 6.5 + 10.5 mm	PYROS-650-INS-4S
1 insert with 1 hole 15.7 mm	PYROS-650-INS-1
1 insert with 1 hole 17.5 mm	PYROS-650-INS-1S
1 soft bag	PYROS-TASCHE
1 plastic marine case IP67	PYROS-KOFFER



PYROS-TASCHE
Schultertragetasche
400 x 170 x 285 mm



PYROS-KOFFER
Wasserdichter
„Marine“-Koffer IP 67
mit Druckausgleichsventil
410 x 535 x 220 mm