

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.

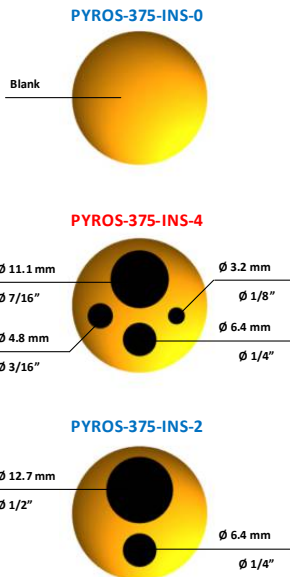
Special attention was paid to reduce the weight, to the small size and sound design obtained by using an aluminium body and aluminium and stainless steel for many internal parts.

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.

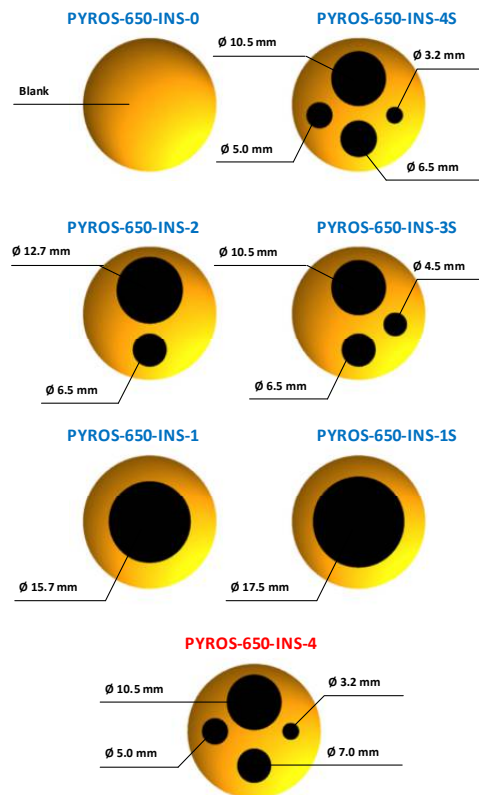


Available block inserts:

LR-Cal PYROS-375 inserts:



LR-Cal PYROS-650 inserts:



Blue = order-code

Red = included in scope of standard delivery

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Россия (495)268-04-70

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Казахстан (772)734-952-31

Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93

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 a) ±0.20°C at +150°C a) ±0.30°C at +375°C	b) ±0.02°C at +50°C b) ±0.05°C at +150°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 a) ±0.15°C at +150°C a) ±0.20°C at +375°C	b) ±0.05°C at +50°C b) ±0.10°C at +150°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



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