

Dry Block Temperature Calibrators **LR-Cal PYROS 140**

- **LR-Cal PYROS 140-1L:** -24°C...+140°C, 1 block 19 mm
- **LR-Cal PYROS 140-2L:** -24°C...+140°C, 2 blocks each 13 mm  
at +20°C ambient temperature

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 calibrator **LR-Cal PYROS 140** has been designed for on-site applications and for the severe conditions of the naval and marine sectors. Its ease of use, compact and practical design, make it 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.

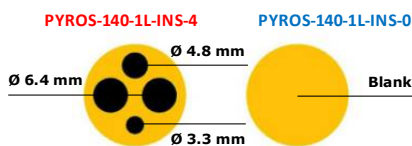


Special attention was paid to reduce the weight, to the small size and sound design obtained by using an aluminium body and aluminium and stainless steel for many internal parts.

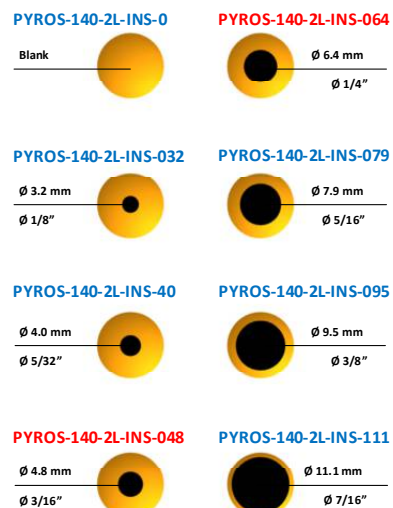
The appliance innovative ventilation system allows the calibrator to keep the temperature on the top of the oven lower compared to competitors' oven. The flow of air on the upper part of the oven is diverted to the rear of the appliance by a tangential flow that touches the calibration well. As a result, 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 Basic 140-1L inserts:**  
with 1 block (aluminium) 19 mm diameter.



**LR-Cal PYROS Basic 140-2L inserts:**  
mit 2 blocks (copper) each 13 mm diameter  
distance between the two holes: 20 mm



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

TECHNICAL DATA	PYROS 140-2L	PYROS 140-1L
Temperature range	-24...+140°C	
Average heating time (incl. stabilization)	20 min. (+20...+120°C)	
Average cooling time (incl. stabilization)	17 min. (+20...-20°C)	
Axial temperature uniformity at 40 mm depth	±0,05°C bei -20°C ±0,04°C bei 0°C ±0,10°C bei +100°C	
Axial temperature uniformity at 60 mm depth	±0,15°C bei -20°C ±0,08°C bei 0°C ±0,2°C bei 100°C	
Radial temperature uniformity	±0,02°C bei -20°C ±0,02°C bei 0°C ±0,05°C bei 100°C	
Usable insertion depth in dry well (metal block)	104 mm	
Opening diameter	2 x 13 mm	1 x 19 mm
Indication accuracy	±0,25°C ±1 Digit	
Interface (with optional converter)	RS232 (USB)	
Stability	±0,1°C	
Display resolution	0,1°C	
Temperature units	°C / °F	
Overtemperature switch	nein	
Thermostat test	5 VDC	
Display	LED 9 mm 2-zeilig	
Dimensions	130 x 260 x 280 mm	
Ambient temperature	+5...+45°C	
Weight	4,9 kg	
Supply (±10%, 50/60 Hz)	100...240 VAC	
Power consumption	80W	

All values valid at ambient temperature +20°C  
 Values measured with following type of probe:  
 LR-Cal PYROS 140-2L + LR-Cal PYROS 140-1L: Pt 100 diameter 3 mm



**Standard scope of delivery**

**PYROS Basic 140-2L** PYROS-BASIC-140-2L  
**PYROS Basic 140-1L** PYROS-BASIC-140-1L

- Dry block calibrator
- Tweezers for insert removing
- Kit of spare fuses
- Connection cables for thermostat testing
- Operating manual
- Test certificate

**PYROS Basic 140 2L:**

- 1 insert with 1 hole 4.8 mm
- 1 insert with 1 hole 6.4 mm

**PYROS Basic 140 1L:**

- 1 insert with 4 holes 3.3 + 4.8 + 6.4 + 6.4 mm

**Optional accessories**

for PYROS Basic 140-2L	Order-Code
1 blank insert	PYROS-140-2L-INS-0
1 insert with 1 hole 3.2 mm	PYROS-140-2L-INS-032
1 insert with 1 hole 4.0 mm	PYROS-140-2L-INS-040
1 insert with 1 hole 4.8 mm	PYROS-140-2L-INS-048
1 insert with 1 hole 6.4 mm	PYROS-140-2L-INS-064
1 insert with 1 hole 7.9 mm	PYROS-140-2L-INS-079
1 insert with 1 hole 9.5 mm	PYROS-140-2L-INS-095
1 insert with 1 hole 11.1 mm	PYROS-140-2L-INS-111
1 insert with 1 customer specific hole	PYROS-140-2L-INS-KW
1 soft bag	PYROS-TASCHE
1 plastic marine case IP67	PYROS-KOFFER
for PYROS Basic 140-1L	Order-Code
1 blank insert	PYROS-140-1L-INS-0
1 insert with 4 holes 3.3 + 4.8 + 6.4 + 6.4 mm	PYROS-140-1L-INS-4
1 soft bag	PYROS-TASCHE
1 plastic marine case IP67	PYROS-KOFFER

