

LR-Cal LRT F Precision Reference Sensors

- Resistance thermometer Pt 100
-40...+650°C
diameter 4.5 mm: Order-Code: **LRT-F-9040-0650-45**
diameter 6.0 mm: Order-Code: **LRT-F-9040-0650-60**
- Thermocouple type S
0...1400°C, diameter 7.0 mm
Order-Code: **LRT-F-0000-1400-70**
incl. robust wooden case

With this reference temperature sensors you can increase significant the measurement accuracy of the **LR-Cal** dry metal block temperature calibrators and the **LR-Cal** fluid bath temperature calibrators significant.

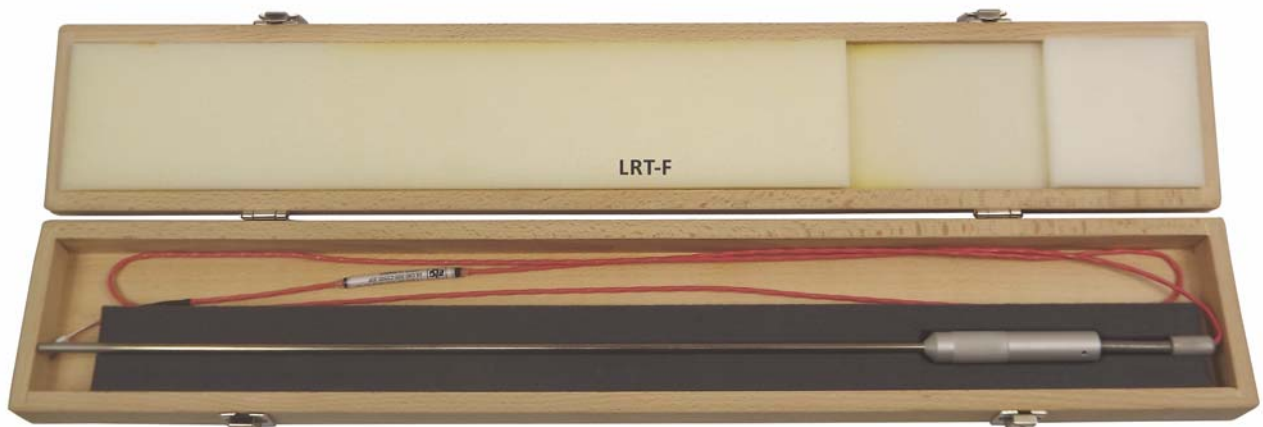
They are suitable for direct connecting to the with „REF“ marked measuring input of the **-2I** versions of models

- **LR-Cal** FLUID 100 and **LR-Cal** FLUID 100-N
- **LR-Cal** FLUID 200 and **LR-Cal** FLUID 200-H
- **LR-Cal** BK40-M and **LR-Cal** BK40-M-TR
- **LR-Cal** TB300-M and **LR-Cal** TM300-M-TR
- **LR-Cal** QUARTZ-35
- **LR-Cal** PULSAR-35Cu und **LR-Cal** PULSAR-80Cu
- **LR-Cal** SOLAR

The temperature values of the external reference sensors **LR-Cal** LRT F are indicated on the second line of the display of the **LR-Cal** temperature calibrators (**-2I** versions). (The calibrator must be configured accordingly.)



LR-Cal LRT-F-9040-0650-45
LR-Cal LRT-F-9040-0650-60



LR-Cal LRT-F-000-1400-70

Resistance thermometer Pt 100 (4 wires), range -40...+650°C:

Type/Order-Code:	LRT-F-9040-0650-45	LRT-F-9040-0650-60
Dimension:	480 mm x 4.5 mm diameter	480 mm x 6.0 mm diameter
Sensor:	Pt 100 (4 wires) class A, 100 Ohm \pm 0.05 Ohm	
Alpha:	0.003850 \pm 0.00005	
Standard:	IEC 60751	
Stability:	0.010 Ohm/year	
Length of sensitive part:	15 mm	
Cable length:	2 meters	
Connection:	Banana plugs suitable for input bushes of LR-Cal temperature calibrators (-2I versions)	

Thermocouple type S, range 0...1400°C

Type/Order-Code:	LRT-F-0000-1400-70
Dimension:	500 mm x 7.0 mm diameter
Sensor:	S Pt-Pt 10% Rhodium, type S
Isolation:	MgO
Sheath:	High purity aluminium KER 710
Cable length:	1 meter (compensated)
Connection:	Miniature plug type S
Included:	Wooden case

Optional: Certificate of Calibration

Order-Code	Description
WKZ-T-KAL-ET-3T	Factory certificate of calibration, 3 test points, traceable for LR-Cal LRT F reference sensor (without display)
DKD-T-KAL-ET-3T	DKD-/DAkKS certificate of calibration, 3 test points for LR-Cal LRT F reference sensor (without display)
WKZ-T-KAL-DT-3T	Factory certificate of calibration, 3 test points, traceable for measuring chain: LR-Cal LRT F reference sensor and display of LR-Cal temperature calibrator (-2I version)
DKD-T-KAL-DT-3T	DKD-/DAkKS certificate of calibration, 3 test points for measuring chain: LR-Cal LRT F reference sensor and display of LR-Cal temperature calibrator (-2I version)
WKZ-T-KAL-MP-3ZPP	Additional charge for factory certificate: 3 additional test points
DKD-T-KAL-MP-3ZPP	Additional charge for DKD/DAkKS certificate: 3 additional test points

The LR-Cal LRT F reference temperature sensors are thermally preconditioned to ensure long term stability and to minimise the risk of contamination when used at high temperatures.

The resistance thermometers use premium grade coil wound platinum sensing element to provide maximum accuracy, but, more importantly, excellent stability and minimum drift.