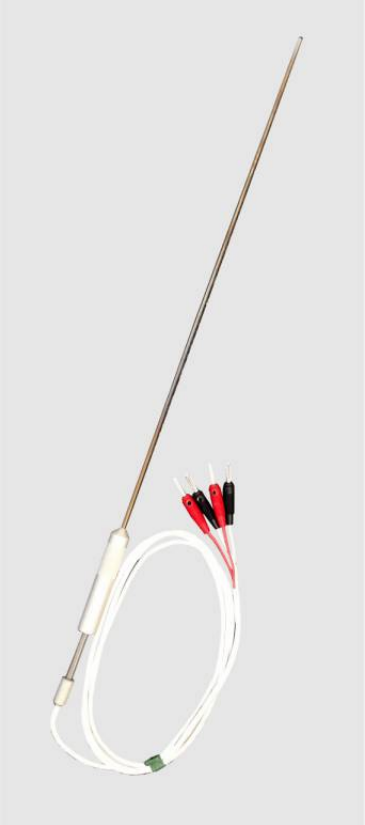
LR-Cal LRT F Precision Reference Sensors

- 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, incl. aluminum case
  With banana plugs: Order-Code LRT-F-0000-1400-70-B
  With TC miniatur plug: Order-Code LRT-F-0000-1400-70



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

With this reference temperature sensors you can increase siginificant the measurement accuracy of the LR-Cal dry metal block tempererature calibrators LTC-DB and the LR-Cal fluid bath temperature calibrators LTC-FB significant, if they are equipped with Option LTC-MP-3I.

They are suitable for direct connecting to a measuring input at following LR-Cal LTC temperature calibrators with option LTC-MP-3I:

- LR-Cal LTC-FB-9018-60
- LR-Cal LTC-FB-0200-60
- LR-Cal LTC-DB-9050-35
- LR-Cal LTC-DB-0600-35
- LR-Cal LTC-FB-9035-45
- LR-Cal LTC-FB-0250-60
- LR-Cal LTC-DB-9030-35
- LR-Cal LTC-DB-1100-44

The temperature values of the external reference sensors LR-Cal LRT F are indicated on the touchscreen display of the LR-Cal LTC temperature calibrators (if they are equipped with option LTC-MP-3I). (The calibrator must be configured accordingly.)



The types LR-Cal LRT-F-000-1400-70-B and LR-Cal LRT-F-000-1400-70 are supplied in an aluminum case.

Restistance 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 90° angled for perfect positioning in the calibrator	480 mm x 6.0 mm diameter
Sensor:	Pt 100 (4 wires) class A, 100 Ohm ±0.05 Ohm	
Alpha:	0.003850 ±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 measuring input bushes of LR-Cal temperature calibrators LTC with option LTC-MP-3I	

Thermocouple type S, range 0…1400°C:

Type/Order-Code:	LRT-F-0000-1400-70-B or 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:	LRT-F-0000-1400-70-B: banana plugs; LRT-F-000-1400-70: Miniature plug type S
Included:	Aluminum case

Certificate of calibration (optional/extra charge):

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	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 LTC temperature calibrator (with LTC-MP-3I)
DKD-T-KAL-DT-3T	DAkkS certificate of calibration, 3 test points for measuring chain: LR-Cal LRT F reference sensor and display of LR-Cal LTC temperature calibrator (with LTC-MP-3I)
WKZ-T-KAL-MP-3ZPP	Additional charge for factory certificate: 3 additional test points
DKD-T-KAL-MP-3ZPP	Additional charge for 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 us premium grade coil wound platinum sensing element to provide maximum accuracy, but, more importantly, excellent stability and minimum drift.