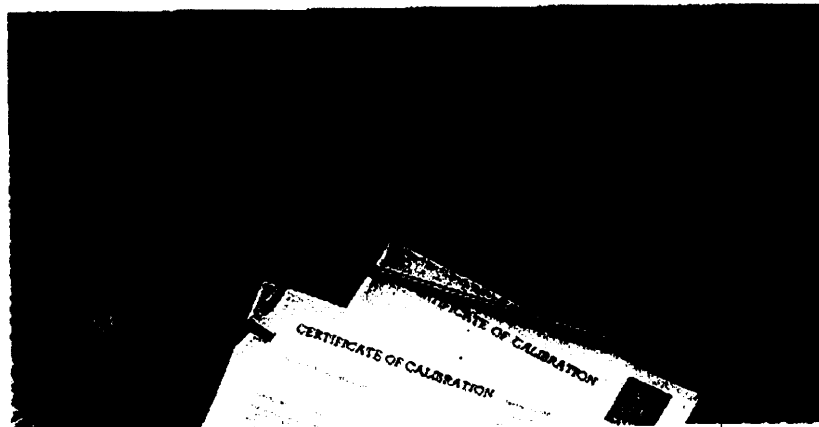


NAMAS CERTIFIED PLATINUM RESISTANCE THERMOMETERS

Off-the-shelf precision platinum resistance thermometers (Pt100) complete with NAMAS certificates are offered in two versions. Both have accuracies better than 1/5 DIN (i.e. $\pm 0.06^\circ\text{C}$ @ 0°C). Both models are NAMAS certified at four points over their working range, and are supplied in a protective storage case.

- ◆ Precision Pt100 thermometers complete with NAMAS certificates
- ◆ High accuracy, better than 1/5 DIN
- ◆ 250°C and 450°C versions
- ◆ Supplied in storage case
- ◆ Available from stock
- ◆ Uncalibrated versions available for custom calibration.

These precision sensors are ideal as reference probes for the comparison calibration of industrial sensors in temperature calibration baths.



Model LCRT Nominal calibrated temperatures -50° , 0° , 100° and 200°C

Model HCRT Nominal calibrated temperatures 0° , 100° , 250° and 400°C

Results for Serial No. 9601/6		
Applied Temperature (ITS-90)	Measured Resistance	Equivalent Temperature in IEC751:1995 (ITS-90)
-50.049°C	80.26350	-50.115°C
0.000°C	99.9889	-0.028°C
100.28°C	138.6089	100.273°C
200.052°C	175.8623	200.017°C
0.000°C	99.9890	-0.028°C

LCRT and HCRT probes are also available in uncalibrated form as models L250 and H450 respectively; this then allows for a choice of alternative calibration temperatures or for a probe to be calibrated in conjunction with a measuring instrument (system calibration). Please consult our Sales Office for details of NAMAS calibrations and prices.

The NAMAS certificates show the measured resistance of the probe at four test temperatures and the equivalent temperature corresponding to each measured resistance. The uncertainty of measurement of the NAMAS laboratory is also stated.

Specifications

General - Calibrated and uncalibrated versions:

Sensor	BS1904:1984, DIN 43760: 1980 and IEC 751, 100 Ohms at 0°C , fundamental interval 38.5 Ohms	Sensing length	25mm
Accuracy	Better than $\pm 0.06^\circ\text{C}$ at 0°C	Recommended minimum immersion depth	150mm
Connection	4-wire current and voltage		

Dimensions

Model LCRT & L250
Stainless steel sheath
6mm ϕ x 250mm long
with 2 metres PTFE insulated screened lead
Max. operating temperature
250°C

Model HCRT & H450

Stainless steel sheath
8mm ϕ x 350mm long
with 2 metres PTFE insulated
screened lead
 450°C

Order Codes

Model LCRT Precision Pt100 probe complete with NAMAS certificate*. Maximum operating temperature 250°C . Complete with storage case.

Model HCRT Precision Pt100 probe complete with NAMAS certificate*. Maximum operating temperature 450°C . Complete with storage case.

Model L250 Precision Pt100 probe. Maximum temperature 250°C .

Model H450 Precision Pt100 probe. Maximum temperature 450°C .

*Please note that because the sensors are generally available from stock, NAMAS certificates may be dated by some weeks.



Certificate No 4746

Specifications may be subject to change

LABFACILITY LIMITED

Tel: 0181 943 5331 Fax: 0181 943 4351

HEADQUARTERS: LABFACILITY LTD, 99 Waldegrave Road, Reddington, Middlesex TW11 8LR, UK. Tel: 0181 943 5331 Telex: 8952151 Intemp G Fax: 0181 943 4351
NORTHERN DIVISION: LABFACILITY LTD, Unit 7 Abbey Way, North Anston Trading Estate, Dinnington, Sheffield S31 7LJ, UK. Tel: 01909 569446 Fax 01909 550632

internet address

<http://www.labfacility.co.uk/temperature>

