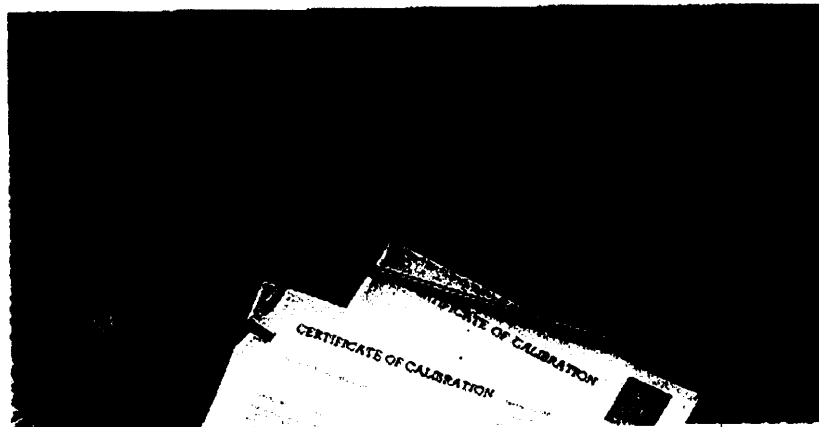


# NAMAS CERTIFIED PLATINUM RESISTANCE THERMOMETERS

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.  $\pm 0.06^{\circ}\text{C}$  @  $0^{\circ}\text{C}$ ). 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  $-50^{\circ}$ ,  $0^{\circ}$ ,  $100^{\circ}$  and  $200^{\circ}\text{C}$

**Model HCRT** Nominal calibrated temperatures  $0^{\circ}$ ,  $100^{\circ}$ ,  $250^{\circ}$  and  $400^{\circ}\text{C}$

Results for Serial No. 960176		
Applied Temperature (ITS-90)	Measured Resistance	Equivalent Temperature in IEC751:1995 (ITS-90)
$-50.049^{\circ}\text{C}$	80.26050	$-50.115^{\circ}\text{C}$
$0.000$	99.9889	$-0.028$
$100.281$	138.6089	$100.273$
$200.052$	175.8623	$200.017$
$0.000$	99.9890	$-0.028$

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:

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

## Dimensions

	<b>Model LCRT &amp; L250</b> Stainless steel sheath 6mm $\times$ 250mm long with 2 metres PTFE insulated screened lead	<b>Model HCRT &amp; H450</b> Stainless steel sheath 6mm $\times$ 350mm long with 2 metres PTFE insulated screened lead
<b>Max. operating temperature</b>	250°C	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.

Specifications may be subject to change



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