

No Error Temperature Measurement System

Fact: All thermocouples, resistance thermometer sensors and associated indicators have errors.

At 100 °C typical error, within Class 1 tolerance, K, N, J thermocouples, to BSEN60584-2 and 4 wire resistance thermometers to BSEN60751 is $\pm 1.5^{\circ}\text{C}$.

At 600 °C type K, N, and J thermocouples could have $\pm 2.4^{\circ}\text{C}$ error and 4 wire resistance thermometers could have $\pm 3.3^{\circ}\text{C}$ error and still be in tolerance.

Add to this that you also have to compensate for the errors from the electrical indicator.

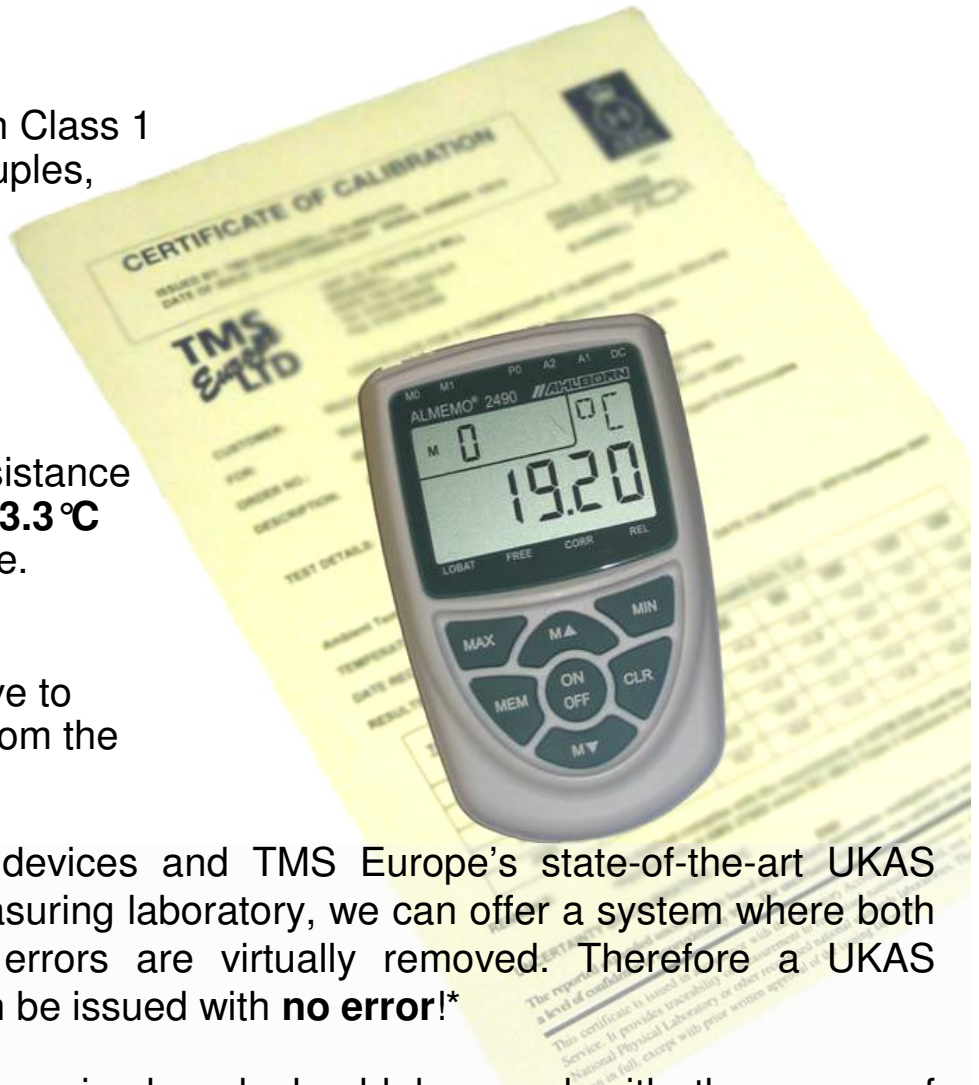
Using patented **Almemo**® devices and TMS Europe's state-of-the-art UKAS accredited temperature measuring laboratory, we can offer a system where both the indicator and sensor errors are virtually removed. Therefore a UKAS Certificate of Calibration can be issued with **no error!***

The units are competitively priced and should be used with the range of interchangeable calibrated sensors that use **Almemo**® connectors. These advanced connectors hold the calibration information to remove any sensor errors in order to give **No Error Temperature Measurement***.

** Instrument error better than 25 milliKelvin depending on sensor type, typical system error (i.e. instrument & sensor) would be 50 milliKelvin \pm LSD (Least Significant Digit).*



TMS Europe Ltd,
Unit 10, Stretfield Mill, Bradwell,
Hope Valley, S33 9JT
Tel: 01433 620535
Fax: 01433 621492
Email: sales@tmseurope.co.uk
Web: www.tmseurope.co.uk



ALMEMO® PRECISION THERMOMETERS – UKAS CALIBRATED

2450-1L 1 Almemo input socket ~ £218.00

4 channels per connector e.g.;

Thermocouples (K,N,J,T, R)
Rh,Temp(Thermistor), Dewpoint, Mixture.
No Resistance Thermometer range
Rotational Speed
Voltage
Current

System accuracy: Resolution 0.1
 $\pm 0.1\%$ of measured value ± 3 LSD

Instrument Calibration: 6 point UKAS calibration of 1 temperature range.*
Optionally £50.00 extra for each additional range.

2490-1L 1 Almemo input socket ~ £288.00

4 channels per connector e.g.;

Thermocouples (K,N,J,T,S,R,B)
Rh,Temp(RTD), Dewpoint, Mixture.
Resistance Thermometers (up to 4-wire)
Rotational Speed
Voltage
Current

System accuracy: Resolution 0.01
 $\pm 0.03\%$ of measured value ± 3 LSD

Instrument Calibration: 6 point UKAS calibration of 1 temperature range.*
Optionally £50.00 extra for each additional range.

2490-2L 2 Almemo input sockets ~ £345.00

4 channels per connector e.g.;

Thermocouples (K,N,J,T,S,R,B)
Rh,Temp(RTD), Dewpoint, Mixture.
Resistance Thermometers (up to 4-wire)
Rotational Speed
Voltage
Current

System accuracy: Resolution 0.01
 $\pm 0.03\%$ of measured value ± 3 LSD

Instrument Calibration: 6 point UKAS calibration of 1 temperature range.*
Optionally £50.00 extra for each additional range.

A full range of Almemo® devices, including Data Loggers and Data Acquisition Systems can found at: www.tmseurope.co.uk/ahlborn.

For sales information call us on 01433 620535 or email sales@tmseurope.co.uk.
For technical or calibration queries call us or email lab@tmseurope.co.uk.

*Calibration by electrical injection and adjustment for 'zero' error of an Almemo temperature plug.
(When the instrument is ordered with a plug. Unless ordered with a probe & plug that are already system calibrated.)