


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

|   |  |  |
|---|--|--|
|  <p><b>0564</b></p> <p>Accredited to<br/><b>ISO/IEC 17025:2005</b></p> | <p><b>TC Ltd</b></p> <p><b>Issue No: 022    Issue date: 02 April 2012</b></p>  |  |
|   | <p><b>Brimington Road North</b><br/><b>Whittington Moor</b><br/><b>Chesterfield</b><br/><b>Derbyshire</b><br/><b>S41 9BE</b></p> | <p><b>Contact: Mr L R Walker</b><br/><b>Tel: +44 (0)1246 454672</b><br/><b>Fax: +44 (0)1895 273540</b><br/><b>E-Mail: laboratory@tc.co.uk</b><br/><b>Website: www.tc.co.uk</b></p> |
| <p><b>Calibration performed at the above address only</b></p>   |  |  |

### DETAIL OF ACCREDITATION

| Measured Quantity<br>Instrument or Gauge   | Range  | Calibration and<br>Measurement Capability<br>(CMC) Expressed as an<br>Expanded Uncertainty<br>( $k = 2$ ) | Remarks  |
|--|--|---|--|
| TEMPERATURE  |  |   |  |
| Resistance thermometers  | Liquid nitrogen (-196 °C)<br>Triple point of water (0.01 °C)<br>-100 °C to -30 °C<br>- 30 °C to + 20 °C<br>20 °C to 90 °C<br>90 °C to 200 °C<br>200 °C to 400 °C<br>400 °C to 620 °C | 0.20 °C<br>0.050 °C<br>0.40 °C<br>0.20 °C<br>0.20 °C<br>0.20 °C<br>0.40 °C<br>0.40 °C                     | 2 wire, 3 wire and 4 wire<br>resistance thermometers |
| Thermocouples - noble metal  | 20 °C to 200 °C<br>200 °C to 400 °C<br>400 °C to 620 °C<br>620 °C to 1100 °C<br>1100 °C to 1330 °C<br>1330 °C to 1590 °C   | 1.0 °C<br>1.0 °C<br>1.0 °C<br>1.0 °C<br>1.0 °C<br>1.7 °C  | Extension and Compensating<br>Cables                 |
| Thermocouples – base metal   | Liquid nitrogen (-196 °C)<br>-100 °C to -30 °C<br>- 30 °C to + 200 °C<br>200 °C to 400 °C<br>400 °C to 620 °C<br>620 °C to 1100 °C<br>1100 °C to 1330 °C                             | 0.40 °C<br>0.40 °C<br>0.30 °C<br>0.40 °C<br>0.40 °C<br>0.80 °C<br>0.90 °C                                 |  |
| Temperature indicators and<br>transmitters with probes                           | Ranges as for sensor type  | As for sensor type  | Including instruments with<br>electrical outputs     |
| Electrical calibration of<br>temperature simulators for the<br>following sensors |  |   |  |
| Resistance sensors (PT 100)  | -200 °C to +800 °C   | 0.05 °C   | 2 wire, 3 wire and 4 wire<br>resistance sensors      |
| Noble metal thermocouples  | -20 °C to +1750 °C   | 0.80 °C   | Including cold junction<br>compensation              |
| Base metal thermocouples   | -200 °C to +1372 °C  | 0.40 °C   | Including cold junction<br>compensation              |



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**TC Ltd**  
**Issue No:** 022 **Issue date:** 02 April 2012

Calibration performed at main address only

| Measured Quantity<br>Instrument or Gauge   | Range               | Calibration and<br>Measurement Capability<br>(CMC) Expressed as an<br>Expanded Uncertainty<br>( $k = 2$ ) | Remarks   |
|--|---------------------|---|---|
| Electrical calibration of<br>temperature indicators,<br>controllers and recorders for the<br>following sensors |                     |   |   |
| Resistance sensors (PT 100)  | -200 °C to +800 °C  | 0.05 °C   | 2 wire, 3 wire and 4 wire<br>resistance sensors |
| Noble metal thermocouples  | -20 °C to +1750 °C  | 0.80 °C   | Including cold junction<br>compensation         |
| Base metal thermocouples   | -200 °C to +1372 °C | 0.40 °C   | Including cold junction<br>compensation         |
| END  |                     |   |   |