

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p><b>UKAS</b> CALIBRATION 0816</p> <p>Accredited to <b>ISO/IEC 17025:2005</b></p>	<b>Caltech Service Co Ltd</b>  <b>Issue No: 014    Issue date: 22 February 2018</b>	
	<b>Unit 5, Poplar Drive</b> <b>Poplar Industrial Estate</b> <b>Moor Lane</b> <b>Witton</b> <b>Birmingham</b> <b>B6 7AD</b>	<b>Contact: Mr P Westwood</b> <b>Tel: +44 (0)121 331 4445</b> <b>Fax: +44 (0)121 331 4447</b> <b>E-Mail: Paul@caltechservice.co.uk</b>
<b>Calibration performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b>            Unit 5, Poplar Drive            Poplar Industrial Estate            Moor Lane            Witton            Birmingham            B6 7AD</p> <p><b>Local contact</b>            Mr P Westwood             Tel: +44 (0)121 331 4445            Fax: +44 (0)121 331 4447            Email: Paul@caltechservice.co.uk</p>	Electrical Temperature Pressure	Calibrations performed at Permanent Laboratory are denoted: <b>P</b>

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>The customers' site or premises must be suitable for the nature of the particular calibrations undertaken and will be the subject of contract review arrangements between the laboratory and the customer.</p> <p><b>Contact</b>            Mr P Westwood             Tel: +44 (0)121 331 4445            Fax: +44 (0)121 331 4447            Email: Paul@caltechservice.co.uk</p>	Electrical Pressure	Calibrations performed away from the Permanent Laboratory, on site are denoted: <b>S</b>



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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ( $k = 2$ )	Remarks	Location Code
<b>ELECTRICAL MEASUREMENT</b>				
DC Voltage	0 mV to 100 mV 100 mV to 1.0 V 1.0 V to 100 V 100 V to 1000 V	0.60 mV 0.65 mV 0.70 mV 0.80 mV		P & S
AC Voltage @ 50 Hz to 1.0 kHz	10 mV to 100 mV 100 mV to 1.0 V 1.0 V to 100 V 100 V to 1000V	0.60 mV 0.65 mV 0.70 mV 0.90 mV		
DC Current	0 mA to 24 mA 24 mA to 100 mA 100 mA to 1.0 A 1.0 A to 10 A	0.16 mA 0.60 mA 0.70 mA 0.75 mA		
AC Current @ 50 Hz to 1.0 kHz	10 mA to 100 mA 100 mA to 1.0 A 1.0 A to 10 A	0.65 mA 0.70 mA 0.80 mA		
DC Resistance	0 $\Omega$ to 100 $\Omega$ 100 $\Omega$ to 1.0 k $\Omega$ 1.0 k $\Omega$ to 100 k $\Omega$ 100 k $\Omega$ to 100 M $\Omega$	0.60 $\Omega$ 0.65 $\Omega$ 0.65 $\Omega$ 0.80 $\Omega$		
<b>ELECTRICAL GENERATION</b>				P & S
DC Voltage	0 mV to 100 mV 100 mV to 1.0 V 1.0 V to 100 V 100 V to 1000 V	0.60 mV 0.65 mV 0.70 mV 0.80 mV		
AC Voltage @ 50 Hz to 1.0 kHz	10 mV to 100 mV 100 mV to 1.0 V 1.0 V to 100 V 100 V to 1000V	0.75 mV 0.80 mV 0.80 mV 1.0 V		
DC Current	0 mA to 100 mA 100 mA to 1.0 A 1.0 A to 10 A	0.60 mA 0.70 mA 0.80 mA		
AC Current @ 50 Hz to 1.0 kHz	10 mA to 100 mA 100 mA to 1.0 A 1.0 A to 10 A	0.65 mA 0.70 mA 0.80 mA		
DC Resistance	0 $\Omega$ to 100 $\Omega$ 100 $\Omega$ to 100 k $\Omega$ 100 k $\Omega$ to 100 M $\Omega$	0.60 $\Omega$ 0.65 $\Omega$ 0.80 $\Omega$		



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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ( $k = 2$ )	Remarks	Location Code
Electrical calibration of temperature indicators, controllers and recorders for the following sensors:				
Noble metal thermocouples	-50 °C to 0 °C 0 °C to 1768 °C	1.3 °C (lab) 0.9 °C (lab) 1.2 °C (site)	with cold junction   compensation	P & S
Base metal thermocouples	-200 °C to 1372 °C	0.5 °C (lab) 1.0 °C (site)	with cold junction compensation	P & S
Resistance thermometers (PT100)	-200 °C to 800 °C	0.3 °C		P & S
<b>PRESSURE</b>				
Hydraulic Pressure (Gauge) Calibration of pressure indicating instruments and gauges	0.55 to 5.5 MPa 5.5 to 55 MPa  0 to 10 MPa 10 to 60 MPa	0.023 % 0.023 %  44 kPa 140 kPa		P  S
<b>TEMPERATURE</b>				
Resistance thermometers and digital indicators with probes	0 °C to 100 °C 100 °C to 800 °C	0.32 °C 1.0 °C		P
Thermocouples, noble metal	100 °C to 500 °C 500 °C to 1000 °C 1000 °C to 1200 °C	1.2 °C 1.1 °C 1.6 °C		P
Thermocouples, base metal	100 °C to 1000 °C 1000 °C to 1200 °C	1.0 °C 1.7 °C		P
<b>END</b>				