


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS CALIBRATION 0604</p> <p>Accredited to ISO/IEC 17025:2005</p>	<p>Young Calibration Limited</p> <p>Issue No: 018 Issue date: 22 July 2011</p>	
	<p>Unit 4, Ham Business Centre Brighton Road Shoreham by Sea West Sussex BN43 6RE</p>	<p>Contact: Mr A Young Tel: +44 (0)1273 455572 Fax: +44 (0)1273 454120 E-Mail: ay@youngcalibration.co.uk Website: www.youngcalibration.co.uk</p>
<p>Calibration performed by the Organisations at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Unit 4, Ham Business Centre Brighton Road Shoreham by Sea West Sussex BN43 6RE</p> <p>Local contact Mr A Young</p>	<p>Pressure Electrical Temperature indicators - Electrical simulation Air velocity Air flow Water flow Hydrocarbon flow</p>	Lab

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>The customer's 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>Local contact Mr A Young</p>	<p>Pressure Electrical Temperature indicators - Electrical simulation</p>	Site



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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
<p>FLOW</p> <p>Hydrocarbon oils Flow rate and volume passed</p>	<p>0.6 l/min to 440 l/min 0.6 l/min to 440 l/min</p>	<p>0.40 % 1.0 %</p>	<p>1. Calibrations are carried out with fluid temperatures of up to 60 °C</p> <p>2. Calibrations are carried out at pressures of up to 11 bar</p>	<p>Lab</p>
<p>Water Flow rate (mass and volume) and volume and mass passed</p>	<p>0.04 l/min to 1000 l/min</p>	<p>0.15 %</p>		<p>Lab</p>
<p>Gas Flow rate and volume passed Mass flow</p>	<p>0.2 l/min to 800 l/min 10 l/s to 450 l/s</p>	<p>0.50 % 1.3 % + 0.20 l/s</p>	<p>Calibration of flow meters with an electrical or pressure output can be undertaken</p>	<p>Lab</p>
<p>AIR VELOCITY</p> <p>Calibration of Anemometers and Pitot Tubes against a laser doppler anemometer</p>	<p>0.05 m/s to 80 m/s</p>	<p>0.33 % + 0.005 m/s</p>		<p>Lab</p>
<p>PRESSURE</p> <p>Gas pressure (absolute)</p> <p>Calibration of pressure indicating instruments and gauges</p>	<p>5 kPa to 130 kPa</p>	<p>22 Pa</p>		<p>Lab</p>
<p>Gas pressure (gauge)</p> <p>Calibration of pressure indicating instruments and gauges</p>	<p>- 90 kPa to 0 Pa 0 Pa to 2.5 kPa 2.5 kPa to 5 kPa 5 kPa to 7 kPa 7 kPa to 35 kPa 35 kPa to 120 kPa 120 kPa to 270 kPa 270 kPa to 2.1 MPa 2.1 MPa to 3.5 MPa</p>	<p>39 Pa 0.74 Pa 2.2 Pa 24 Pa 31 Pa 150 Pa 0.018 % 0.020 % 500 Pa</p>		<p>Lab</p>



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PRESSURE				
Hydraulic pressure (gauge)				
Calibration of pressure indicating instruments and gauge	0.55 MPa to 1 MPa 1 MPa to 41 MPa 41 MPa to 110 MPa	0.025 % + 90 Pa 0.0090 % + 90 Pa 0.018 %		Lab
Gas pressure (absolute)				
Calibration of pressure indicating instruments and gauges	5.0 kPa to 130 kPa	22 Pa		Site
Gas pressure (gauge)				
Calibration of pressure indicating instruments and gauges	- 90 kPa to 0 Pa 0 Pa to 2.5 kPa 2.5 kPa to 5.0 kPa 5.0 kPa to 34.4 kPa 34.4 kPa to 250 kPa 250 kPa to 3.5 MPa	39 Pa 0.74 Pa 2.2 Pa 31 Pa 150 Pa 500 Pa		Site
ELECTRICAL				
DC Voltage				
Generation	0 V to 330 mV 330 mV to 3.3 V 3.3 V to 33 V	0.0090 % + 6.0 μ V 0.0070 % + 33 μ V 0.0050 % + 370 μ V		Lab and site
Measurement	0 V to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V	0.0070 % + 500 μ V 0.044 % + 1.0 mV 0.0044 % + 7.0 mV 0.0061 % + 78 mV		
AC Voltage Measurement	At 50 Hz: 200 V to 300 V	1.0 %		
DC Current				
Generation	0 mA to 30 mA	0.016 % + 1.4 μ A		
Measurement	0 mA to 30 mA	0.013 % + 10 μ A		
DC Resistance				
	0 Ω to 1 k Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 100 k Ω to 1 M Ω	0.019 % + 13 m Ω 0.019 % + 0.13 Ω 0.019 % + 1.3 Ω 0.019 % + 13 Ω		



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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	
Frequency					
Spot values	1 MHz, 5 MHz and 10 MHz	0.0020 ppm			
Generation	3 Hz to 500 kHz	0.0040 % + 1.2 mHz	Frequency can be expressed in other units, for example RPM, at equivalent uncertainties.	Lab and site	
Measurement	3 Hz to 500 kHz	0.012 % + 1.2 mHz			
Electrical calibration of temperature indicators					
Ambient	15 °C to 30 °C	0.35 °C	For reporting reference junction temperature		
Base Metal Thermocouples	- 270 °C to 0 °C 0 °C to 1370 °C	0.44 °C 0.28 °C			
Noble Metal Thermocouples	- 50 °C to + 399 °C 400 °C to 1760 °C	0.75 °C 0.44 °C	Including reference junction compensation		
PRTs					
Pt 100	- 100 °C to 850 °C	0.25 °C			
END					