


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>0004</b></p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>NMO Testing</h3> <p>(Part of the Office for Product Safety and Standards within the Department for Business, Energy and Industrial Strategy)</p> <p><b>Issue No: 039    Issue date: 8 March 2021</b></p>	
	<p><b>NMO</b> Stanton Avenue Teddington Middlesex TW11 0JZ</p>	<p><b>Contact: Mr M Panesar</b> <b>Tel: +44 (0)20 8943 7246</b> <b>Fax: +44 (0)20 8943 7270</b> <b>E-Mail: <a href="mailto:mannie.panesar@beis.gov.uk">mannie.panesar@beis.gov.uk</a></b> <b>Website: <a href="http://www.gov.uk/government/organisations/office-for-product-safety-and-standards">www.gov.uk/government/organisations/office-for-product-safety-and-standards</a></b></p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
ELECTRONIC AND ELECTRICAL WEIGHING AND MEASURING INSTRUMENTS AND ANCILLARY EQUIPMENT	<p>EMC Testing</p> <p>Performance under the following conditions:-</p> <p>Electrostatic discharge</p>	<p>BS EN 61000-4-2:2009 IEC 61000-4-2:2008 IEC 61000-4-2:1995 plus A1:1998 and A2:2000 BS EN 61000-4-2:1995 plus A1:1998 and A2:2001 OIML R117:1995 OIML R118:1995</p>
	<p>Radiated, radio frequency, electromagnetic fields</p>	<p>BS EN 61000-4-3:2006 plus A1:2008 IEC 61000-4-3:2006 plus A1:2008 and A2:2010 IEC 61000-4-3:1995 plus A1:1998 and A2:2000 ENV 50140:1994 BS EN 61000-4-3:1996 plus A1:1998 and A2:2001 BS EN 61000-4-3:2002 plus A1:2002 IEC 61000-4-3:2006 plus A1:2008 and A2:2010 OIML R117:1995 OIML R118:1995</p>



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ELECTRONIC AND ELECTRICAL WEIGHING AND MEASURING INSTRUMENTS AND ANCILLARY EQUIPMENT (cont'd)	Performance under the following conditions:- (cont'd)  Fast transients/bursts	IEC 61000-4-4:2012 EN 61000-4-4:2012 IEC 61000-4-4:1995 plus A1:2000 plus A2:2001 BS EN 61000-4-4:1995 plus A1:2001 plus A2:2001 IEC 61000-4-4:2004 BS EN 61000-4-4:2004 OIML R117:1995 OIML R118:1995
	Surges AC mains tests only, single phase up to 16A	BS EN 61000-4-5:2014 + A1:2017 IEC 61000-4-5:2014 + A1:2017
	Conducted RF Immunity 150 kHz to 80 MHz Single phase ac power supplies only, CDN method I/O lines, em-clamp method	BS EN 61000-4-6:2014 IEC 61000-4-6:2013
	Voltage dips, short time power reductions and voltage variations  single phase equipment with nominal 230 V / 50 Hz supply only	BS EN 61000-4-11:2004 + A1:2017 IEC 61000-4-11:2004 + A1:2017 OIML R117:1995 OIML R118:1995



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NON-AUTOMATIC WEIGHING INSTRUMENTS	<u>EMC Testing (cont'd)</u>  <u>Generic and product specific standards</u>  These standards are accredited to the extent that they call up the basic standards as detailed above  Short time power reductions  Voltage variations  Voltage dips and short time power reductions  Electrical bursts  Surges  Electrostatic discharges  Immunity to radiated electromagnetic fields  Immunity to conducted electromagnetic fields	BS EN 45501:1992 + AC:1993 BS EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	ELECTRONS AND ELECTRICAL WEIGHING AND MEASURING INSTRUMENTS & ANCILLARY EQUIPMENT IN ROAD VEHICLES	
	Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines  OIML R76-1:2006 B.3.7.2 ISO 7637-3:2007 Fast pulses a & b of clause 4.3.2 CCC method only	



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NON-AUTOMATIC WEIGHING INSTRUMENTS HAVING (a) A MAXIMUM CAPACITY NOT MORE THAN 10 kg AND NOT MORE THAN 1,000,000 VERIFICATION SCALE INTERVALS, AND (b) A MAXIMUM CAPACITY NOT MORE THAN 100 kg AND NOT MORE THAN 100,000 VERIFICATION SCALE INTERVALS, AND (c) A MAXIMUM CAPACITY NOT MORE THAN 2000 kg AND NOT MORE THAN 10,000 VERIFICATION SCALE INTERVALS.	Performance Tests  Weighing performance in the range from - 10 °C to + 40 °C  Temperature effect on no load  Eccentricity  Discrimination and sensitivity  Repeatability  Creep and Zero return  Stability of equilibrium  Tilting  Tare  Warm-up time  Damp heat, steady state  Span stability  Endurance	BS EN 45501:1992 + AC:1993 BS EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
LOAD CELLS UP TO 1 TONNE CAPACITY AND NOT MORE THAN 10,000 SCALE INTERVALS	Determination of load cell error, repeatability error and temperature effect on minimum dead load output  Determination of creep error  Determination of minimum dead load output return  Determination of barometric pressure effects  Determination of humidity effects  Additional tests for load cells equipped with electronics	OIML R60 Edition 2000 (E)



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<p>FUEL DISPENSERS AND METERS for diesel &amp; kerosene</p> <p>Deliveries from 2L to 100L</p>	<p>Accuracy tests</p> <p>Minimum measured quantity</p> <p>Gas elimination device</p> <p>Endurance tests</p> <p>Environmental Dry Heat</p> <p>Environmental Cold</p> <p>Damp heat, cyclic</p>	<p>OIML R 117-2:2014 clauses:</p> <p>5.3.</p> <p>5.5</p> <p>7.2.2.1.1</p> <p>5.4</p> <p>4.8.5</p> <p>4.8.6</p> <p>4.8.7</p>
<p>TAXIMETERS</p> <p>Tariff testing</p> <p>(Various taximeters that have been previously type approval tested for use in the UK, and that meet the requirements of the Measuring instruments directive)</p>	<p>Bench testing for:</p> <p>Distance and Time</p> <p>Supply voltage variation</p>	<p>As laid down in the Transport for London (Public Carriage Office), Taximeter Specification 2017</p> <p>OIML R021-2007 Taximeters, Metrological and Technical requirements, test procedures and test report format.</p>
END		