

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



0004

Accredited to
ISO/IEC 17025:2017

NMO Testing

(Part of the office for product safety and standards)

Issue No: 037 Issue date: 21 October 2019

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Testing performed at the above address only

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 (excluding non-automatic weighing instruments)	<p>Performance under the following conditions:-</p> <p>Voltage dips, short time power reductions and voltage variations</p> <p>Electrostatic discharge</p> <p>Radiated, radio frequency, electromagnetic fields</p>	<p>IEC 61000-4-11:2004 EN 61000-4-11:2004 OIML R117:1995 OIML R118:1995</p> <p>IEC 801-2:1991 IEC 61000-4-2:1995 plus A1:1998 and A2:2000 IEC 61000-4-2:2008 EN 61000-4-2:1995 plus A1:1998 and A2:2001 EN 61000-4-2:2009 OIML R117:1995 OIML R118:1995</p> <p>IEC 801-3:1984 IEC 61000-4-3:1995 plus A1:1998 and A2:2000 ENV 50140:1994 EN 61000-4-3:1996 plus A1:1998 and A2:2001 EN 61000-4-3:2002 plus A1:2002 IEC 61000-4-3:2006 plus A1:2008 IEC 61000-4-3:2006 plus A1:2008 and A2:2010 EN 61000-4-3:2006 plus A1:2008 EN 61000-4-3:2006 plus A1:2008 and A2:2010 OIML R117:1995 OIML R118:1995</p>



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<p>ELECTRONIC AND ELECTRICAL WEIGHING AND MEASURING INSTRUMENTS AND ANCILLARY EQUIPMENT (excluding non-automatic weighing instruments) (cont'd)</p>	<p>Performance under the following conditions:- (cont'd)</p> <p>Fast transients/bursts</p> <p>Conducted RF Immunity 150 kHz to 80 MHz Single phase ac power supplies only, CDN method I/O lines, em-clamp method</p> <p>Surges</p>	<p>IEC 801-4:1988 IEC 61000-4-4:1995 plus A1:2000 plus A2:2001 EN 61000-4-4:1995 plus A1:2001 plus A2:2001 IEC 61000-4-4:2004 EN 61000-4-4:2004 OIML R117:1995 OIML R118:1995</p> <p>EN 61000-4-6:1996 plus A1:2001 IEC 61000-4-6:2003 plus A1:2004 plus A2:2006 IEC 61000-4-6:2008 EN 61000-4-6:2007 EN 61000-4-6:2009</p> <p>IEC 61000-4-5:1995 plus A1:2000 EN 61000-4-5:1995 plus A1:2001 IEC 61000-4-5:2005 EN 61000-4-5:2006</p>
<p>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.</p>	<p>Weighing performance in the range from - 10 °C to + 40 °C</p> <p>Temperature effect on no load</p>	<p>EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)</p> <p>EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)</p>



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	Discrimination and sensitivity	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	Repeatability	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	Creep and Zero return	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	Stability of equilibrium	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	Tilting	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)



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	Tare	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	Warm-up time	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	Voltage variations	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	Tare	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	Voltage dips and short time power reductions	OIML R76-1 Edition 2006(E)
	Electrical bursts	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	Surges	OIML R76-1 Edition 2006(E)



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	Immunity to radiated electromagnetic fields	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	Immunity to conducted electromagnetic fields	OIML R76-1 Edition 2006(E)
	Damp heat, steady state	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	Span stability	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
	Endurance	EN 45501:1992 + AC:1993 EN 45501:2015 R76-1 Edition 1992(E) + Amendment 1 1994(E) OIML R76-1 Edition 2006(E)
LOAD CELLS UP TO 2 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	OIML R60 Edition 2000 (E)
	Determination of creep error	
	Determination of minimum dead load output return	
	Determination of barometric pressure effects Determination of humidity effects	OIML R60 Edition 2000 (E)
	Additional tests for load cells equipped with electronics	



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ELECTRONIC AND ELECTRICAL WEIGHING AND MEASURING INSTRUMENTS & ANCILLARY EQUIPMENT IN ROAD VEHICLES	Electrical transient conduction along supply line	OIML R76-1:2006 B.3.7.1 ISO 7637-2:2004 +A1:2008 Test pulses 2a, 2b, 3a, 3b, 4, 5
	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
FUEL DISPENSERS AND METERS for diesel & kerosene Deliveries from 2L to 100L	Accuracy tests	R117:1995, 6.1.5.2 Accuracy tests R118:1995, 3.2 Accuracy
	Minimum measured quantity	R117:1995, 6.1.5.2.3 Minimum measured quantity R118:1995, 3.3 Minimum measures quantity
	Flow disturbances	R117:1995, 6.1.5.2.3 Flow disturbances R118:1995, 3.4 Flow interruption
	Gas elimination device	R117:1995, 6.1.6 Gas elimination device R118:1995, 3.5 Gas elimination
	Endurance tests	R117:1995, 6.1.5.3 Endurance tests R118:1995, 3.7 Endurance
	Dry Heat	R117:1995, A.4.1 Dry Heat R118:1995, 4.1 Dry heat (non condensing)
	Cold	R117:1995, A.4.2 Cold R118:1995, 4.2 Cold
	Damp heat, cyclic	R117:1995, A.4.3 Damp heat, cyclic R118:1995, 4.3 Damp heat, cyclic



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TAXIMETERS Tariff testing (Various taximeters that have been previously type approval tested for use in the UK, and that meet the requirements of the Measuring instruments directive)	Bench testing for: Distance and Time Supply voltage variation	As laid down in the Transport for London (Public Carriage Office), Taximeter Specification 2017 OIML R021-2007 Taximeters, Metrological and Technical requirements, test procedures and test report format.
END		