

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING 0029</p> <p>Accredited to ISO/IEC 17025:2017</p>	Intertek Testing & Certification Ltd	
	Issue No: 120 Issue date: 04 October 2021	
Academy Place 1-9 Brook Street Brentwood Essex CM14 5NQ	Contact: Mr Andrew Strachan Tel: +44 (0)1372 370900 E-Mail: mailing.uk@intertek.com Website: www.intertek.com	
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Primary Contact Address Intertek House Cleeve Road Leatherhead Surrey KT22 7SA	Local contact Mr D Flack Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370999 Email: david.flack@intertek.com	Schedule Sections: 1, 2, 3, 7, 9, 11,13, 17, 18	CR
Address Unit D Imperial Park Randalls Way Leatherhead Surrey KT22 7TS	Local contact Mr D Flack Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370999 Email: david.flack@intertek.com	EMC, Fire Detection & Fire Alarm Systems Schedule Sections 4,12, 19	IP
Address Research & Performance Testing Centre Davy Avenue Knowhill Milton Keynes MK5 8NL	Local contact Mr D Flack Tel: +44 (0)1908 857777 Fax: +44 (0)1908 857830 Email: david.flack@intertek.com	Schedule Sections: 5, 7, 8, 10, 13, 14, 15, 18	MK
Address Deeside Lane Chester CH1 6DD	Local contact Mr P Balaire Tel: +44 (0)1244 882590 Fax: +44 (0)1244 882599 Email: Pierrick.Balaire @intertek.com	Schedule Sections: 2 and 18	CH

Site activities performed away from the locations listed above:



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Location details	Activity	Location code
Any	EMC Testing, Section 16 of Schedule Medical Electrical Equipment, Section 11 of Schedule Electrical equipment for measurement control and laboratory use, Section 3 of Schedule	S

Flexible Scope

The laboratory is accredited to ISO/IEC17025:2017 for testing activities in accordance with the standards highlighted in the schedule. This may also include tests on the same or similar product types against standards, or customer-specified methods that are not specifically listed in this Schedule, providing that:

- (1) The method or standard does not introduce new principles of measurement.
- (2) The method or standard does not require measurements to be made outside the parametric boundaries defined in this Schedule.

Information about flexible scopes of accreditation is available in UKAS document GEN 4



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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SECTION 1: CONTROLS Thermal Link	<u>Electrical Products Tests</u>	EN 60691:2003, Amd A1 IEC 60691:2002, Amd 1 IEC 60691:2015 BS EN 60691:2016 Excluding: Clause 10.8 Annex C Annex D Annex E Annex F	MK
Automatic controls for household and similar use General requirements	Electrical safety	EN 60335-2-35 -1:2016 EN 60335-2-35 -1:2011 EN 60730-1:2011 IEC 60730-1:2010 Excluding: Annex H, 6.18 Control Class B and C. Annex P EN 60730-1:2000, Amds A1, A2 & A12 to A16 IEC 60730-1:1999 + A1 + A2 Excluding: Annex D Annex H, 6.18 Software Class B and C Annex P Annex Q	MK
Thermal motor protectors	Electrical safety	EN 60730-2-2:2002, Amds A1 and A11 IEC 60730-2-2:2001, Amd 1 Excluding: Clause 17.101, Short-circuit test >0.375 kW	MK



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SECTION 1: (cont'd) Thermal motor protectors for motor compressors	<u>Electrical Products Tests</u> (cont'd) Electrical safety	EN 60730-2-4:2007 IEC 60730-2-4:2006 Excluding: Clause 17 Endurance	MK
Automatic electrical burner control systems	Electrical safety	EN 60730-2-5:2002 + A1 + A11 + A2 excluding 11.101.1, 11.101.3, 11.101.5, 11.101.6 (Flame detector devices using infra-red sensors & UV sensors)	MK
Pressure sensing controls	Electrical safety	EN 60730-2-6:2008 IEC 60730-2-6:2007	MK
Timers and time switches	Electrical safety	EN 60730-2-7:2010 IEC 60730-2-7:2008	MK
Water valves	Electrical safety	EN 60730-2-8:2002, Amd A1 IEC 60730-2-8:2000, Amd 1 Excluding: Clause 18.101.3, Anti water hammer Clause 18.102, Water quality Annex BB, Anti water hammer	MK
Temperature sensing controls	Electrical safety	EN 60730-2-9:2010 IEC 60730-2-9:2008 + A1:2011 Excluding: Clause 11.4.13.102, Type 2.K impact test	MK
Electric actuators	Electrical safety	EN 60730-2-14:1997 IEC 60730-2-14:1995	MK



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SECTION 1: (cont'd) Air flow, Water flow and Water level sensing – for water level sensing only	<u>Electrical Products Tests</u> (cont'd) Electrical safety	EN 60730-2-15: 2010 IEC 60730-2-15: 2008	MK
Switches for appliances General requirements	Electrical safety	BS EN 61058-1:2002, Amd A2 EN 61058-1:2002 IEC 61058-1:2000, Amd 1 Excluding: Clause 20.4, Type A and B coatings Clause 23.3, Short-circuit test Annex R, Routine tests BS EN 61058:1992, Amd 1 EN 61058:1992, Amd A1 IEC 61058-1:1996 IEC 61058-1:1990, Amds 1 & 2	MK
Electrical equipment of industrial machines General requirements	Electrical safety	EN 60204:Part 1:2006 + A1 BS 2771:Part 1:1986	MK



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SECTION 2: ELECTRICAL APPARATUS, SYSTEMS, COMPONENTS, ACCESSORIES AND ENCLOSURES FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES	<u>Electrical Products Tests</u>		
Electrical apparatus for explosive gas atmospheres General requirements	Construction, safety and marking	IEC 60079-0:2017 IEC 60079-0:2011 IEC 60079-0:2007 Excluding : Resistance to light Tests of Ignition by electrostatic Charges Hands and Cap Lamps Chemical Resistance of materials Oil and Flame Resistance	CR, CH
Tests for Apparatus in Flameproof Enclosures (Exd)	Construction, safety and marking	IEC 60079-1:2014 IEC 60079-1:2007 Excluding: Ageing test for elastomeric sealing rings for cable entries	CR, CH
Tests for Pressurised and Purged Apparatus (Exp)	Construction, safety and marking	IEC 60079-2:2014 IEC 60079-2:2007	CR, CH
Tests for Powder Filling Apparatus (Exq)	Construction, safety and marking	IEC 60079-5: 2015 IEC 60079-5:2007	CR
Tests for Liquid Immersion Apparatus (Ex o)	Construction, safety and marking	IEC 60079-6: 2015 IEC 60079-6:2007	CR, CH



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SECTION 2: (cont'd) Tests for Increased Safety Apparatus (Ex e)	<u>Electrical Products Tests</u> (cont'd) Construction, safety and marking	IEC 60079-7:2017 (Edition 5.1) IEC 60079-7: 2015 (Edition 5) IEC 60079-7:2006 (Edition 4) Excluding: Thermal performance testing of electrical machines at frequencies other than 50 Hz, or with rated supply voltages above 660V or with rated powers above 15 kW Sulphur dioxide test for bi-pin lamp caps/lampholders Vibration test on luminaires with bi-pin caps/lampholders Tests for high-voltage machines	CR, CH
Tests for Intrinsically Safe Apparatus, Associated Apparatus and Systems (Ex i)	Construction, safety and marking	IEC 60079-11:2011 IEC 60079-11:2006 Excluding: Performing of assessments in CH	CR, CH
Explosive atmospheres – Equipment protection by pressurized room "p" and artificially ventilated room "v"	Construction, safety and marking	IEC 60079-13: 2017 IEC 60079-13: 2010	CR, CH
Tests for Electrical Apparatus for Explosive Atmospheres with Type of Protection n	Construction, safety and marking	IEC 60079-15:2017 IEC 60079-15:2010 IEC 60079-15:2005 Excluding: Thermal performance testing of electrical machines at frequencies other than 50 Hz, or with rated supply voltages above 660 V or with rated powers above 15 kW	CR, CH
Tests for Encapsulated Apparatus (Ex m)	Construction, safety and marking	IEC 60079-18: 2017 (Edition 4.1) IEC 60079-18:2015 (Edition 4) IEC 60079-18:2007 (Edition 3)	CR, CH



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SECTION 2: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Explosive atmospheres – Intrinsically safe electrical systems	Construction, safety and marking	IEC 60079-25:2020 IEC 60079-25:2010 IEC 60079-25:2003	CR
Explosive atmospheres - Equipment with Equipment Protection Level (EPL) Ga	Construction, safety and marking	IEC 60079-26:2014 IEC 60079-26:2006	CR, CH
Explosive atmospheres - Protection of equipment and transmission systems using optical radiation	Construction, safety and marking	IEC 60079-28:2015 IEC 60079-28:2006	CR, CH
Explosive atmospheres - Equipment dust ignition protection by enclosure "t"	Construction, safety and marking	IEC 60079-31: 2014 IEC 60079-31: 2008	CR, CH
Explosive atmospheres – Electrical resistance trace heating – General and testing requirements	Construction, safety and marking	IEC 60079-30-1: 2015	CR, CH
Explosive atmospheres - Caplights for use in mines susceptible to firedamp - General requirements - Construction and testing in relation to the risk of explosion	Construction, safety and marking	IEC 60079-35-1:2011	CR, CH
Explosive atmospheres - Caplights for use in mines susceptible to firedamp - Performance and other safety-related matters	Construction, safety and marking	IEC 60079-35-2:2011	CR, CH



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SECTION 2: (cont'd) Tests for apparatus of equipment Group I, Category M1	<u>Electrical Products Tests</u> (cont'd) Construction, safety and marking	BS EN 50303:2000	CR
Electrical apparatus for potentially explosive atmospheres. Group I. Intrinsically safe systems	Construction, safety and marking	BS EN 50394:2004	CR
Surface heating devices	Safety tests	IEC 62086-1:2001	CR, CH
Basic Methods and Requirements	Construction, safety and marking	BS EN 13463-1:2009	CR, CH
Protection by flow restricting enclosure "fr"	Construction, safety and marking	BS EN 13463-2:2004	CR
Protection by flameproof enclosure 'd'	Construction, safety and marking	BS EN 13463-3:2005	CR, CH
Protection by flameproof enclosure 'c'	Construction, safety and marking	BS EN 13463-5:2011	CR, CH
Protection by control of ignition source "b"	Construction, safety and marking	BS EN 13463-6:2005	CR
Protection by liquid immersion "k"	Construction, safety and marking	BS EN 13463-8:2003	CR
Explosive atmospheres: Non-electrical equipment for explosive atmospheres - Basic method and requirements	Construction, safety and marking	ISO 80079-36:2016	CR, CH



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SECTION 2: (cont'd) Explosive atmospheres. Non-electrical equipment for explosive atmospheres. Non-electrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k"	<u>Electrical Products Tests</u> (cont'd) Construction, safety and marking	ISO 80079-37:2016	CR, CH
Design of fans working in potentially explosive atmospheres	Construction, safety and marking	BS EN 14986: 2017 BS EN 14986: 2007	CR, CH
Reciprocating internal combustion engines	Safety Tests	BS EN 1834-1:2000 Excluding: Clause 6.3, Installation and auxiliary fittings Clause 6.4, Spark arrestor test	CR
Reciprocating internal combustion engines	Safety Tests	BS EN 1834-2:2000	CR
Equipment in Aircraft	Explosion - Proofness	BS 3G100:Part 2:Section 3: Sub-section 3.5:1972	CR



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SECTION 2: (cont'd) Explosive Atmosphere Tests	<u>Electrical Products Tests</u> (cont'd) Safety tests	MIL STD 810B, Method 511:1967 MIL STD 810C Procedures I and II: 10 March 1975 Method 511.1:10 March 1975 MIL STD 810D, Method 511.2:1983 MIL STD 810E Method 511.3:1989 MIL STD 810F Method 511.4:2002 MIL STD 810F Method 511.4:2000 MIL STD 810G Method 511.5:2008 MIL STD 810G w/change 1 Method 511.6:2014 MIL STD 810H Method 511.7 2019 PANAVIA SP-P-90033 Para 6.10.2 Issue 7:Explosive Atmosphere Test Method, 19 April 1974 RTCA/DO-160C Section 9 only RTCA/DO-160E, Section 9: 2004 RTCA/DO-160F, Section 9: 2007 RTCA/DO-160G, Section 9: 2010 RTCA-DO-160D Section 4.6.2 only Section 9 only RTCA/DO-160E, Section 4.6.2: 2004 RTCA/DO-160F, Section 4.6.2: 2007 RTCA/DO-160G, Section 4.6.2: 2010 EFJ-J-EFA-000-0083 Issue A, Sept 1988	CR
Flame arresters. Performance requirements, test methods and limits for use	Construction, safety and marking	ISO 16852:2010 ISO 16852:2016 Excluding: Clause 3.4.2, Pressure Drop Test	CR
Explosion Venting Devices	Safety tests	EN 14797: 2006	CR CH



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SECTION 2: (cont'd) LPG equipment and accessories – Construction and performance of LPG equipment for automotive filling stations – Part 1: Dispensers	<u>Electrical Products Tests</u> (cont'd) Electrical and mechanical safety	EN 14678-1:2013	CR CH
Petrol filling stations – Safety requirements for construction and performance of metering pumps, dispensers and remote pumping units	Electrical and mechanical safety	EN 13617-1:2012	CR CH
Petrol filling stations – Safety requirements for construction and performance of safe breaks for use on metering pumps and dispensers	Mechanical Safety	EN 13617-2:2012	CR CH
Cable glands for electrical installations	Electrical and mechanical safety	EN 62444:2013	

In the above section 2 where IEC, ISO or BS EN standards have exact equivalents in EN Standards, these EN standards are also included in the accreditation.



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SECTION 3: ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL AND LABORATORY USE	<u>Electrical Product Tests</u>	BS EN 61010-1:2010 IEC 61010-1:2010 Excluding: Clause 12.2.3, Implosion of cathode ray tubes Clause 12.3, UV radiation Clause 12.5, Ultrasonic test Clause 12.6, Lasers	
General requirements and equipment for which there is no Part 2 standard	Electrical safety AC test voltages up to 15kV DC test voltages up to 40kV Impulse withstand voltage up to 6kV	BS EN 61010-1:2001 EN 61010-1:2001 IEC 61010-1:2001 Excluding: Clause 12.6, Laser sources Clause 13.2.3, Implosion of cathode ray tubes Clause 16.2, Measurement categories iii and iv	CR, S
Laboratory equipment for the heating of materials	Electrical safety	EN 61010-2-010:2003 IEC 61010-2-010:2003	CR
Hand held probe assemblies for electrical measurement and test	Electrical safety	BS EN 61010-2-031:2002 + A1 IEC 61010-2-031:2002 + A1	CR
Hand held current clamps for electrical measurement and test	Electrical safety	BS EN 61010-2-32:2002 IEC 61010-2-32:2002 BS EN 61010-2-032:1995	CR
Automatic and semi-automatic laboratory equipment for analysis and other purposes	Electrical safety	BS EN 61010-2-081:2002, Amd 1 IEC 61010-2-081:2002, amd 1	CR
Safety requirements for electrical equipment for measurement, control and laboratory use - Particular requirements for cabinet X-ray systems	Electrical safety	IEC 61010-2-091:2012	CR
In-vitro diagnostic (IVD) medical equipment	Electrical safety	EN 61010-2-101: 2015 IEC 61010-2-101: 2015 BS EN 61010-2-101: 2002 IEC 61010-2-101: 2002	CR



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SECTION 4: EMC TESTING Audio Equipment Circuit Breakers and Switches Compressors Computers and Peripherals Construction: Plant Construction: Products Domestic Appliances Electrical/Electronic Components Electrical/Electronic Connectors Electrical/Electronic Products Electromechanical Devices Engine Components Fans Fire Detection Equipment Generators, Electrical Heating and Cooking Appliances Instruments: Indicating/Recording IT Equipment Lamps: Electrical Lawnmowers Lifts: Electrical Luminaires Marine Equipment Medical Equipment Motors, Electrical Office Equipment, Electrical Optical and Photometric Equipment Plugs and Sockets: Electrical Power Supplies, Electrical Power Tools Printed Circuit Boards Process Control Equipment Radar Equipment Radio Equipment	<u>EMC Testing</u> 4.1 Commercial <u>EMC Testing</u> 4.1.1 Conducted Emissions Conducted emissions: 9 kHz to 30 MHz Continuous emissions Discontinuous emissions	<u>ALL EMC STANDARDS</u> EN 55016-2-1:2009+A1:2011+A2:2013 EN 55016-2-1:2014+A1:2017 EN 55011:2007, Amd A1 & A2 EN 55011:1998, Amd A1 & A2 EN 55011:2009+A1:2010 EN 55016-2-1:2014 EN 55013:1990 Excluding: TV EN 55014-1:2017 EN 55014-1:2006+A1:2009+A2:2011 EN 55014-1:2000, Amds A1 & A2 EN 55014-1:1993, Amds A1 & A2 EN 55014:1987 EN 55015:2013+A1:2015 EN 55015:1996 < 100 Hz EN 55015:1993 < 100 Hz EN 55032:2015	IP
	4.1.2 Radiated Emissions: Electric field: 30 MHz to 40 GHz Magnetic field: 9 kHz to 30 MHz Radiated Power: 30 MHz to 300 MHz	EN 55011:2007, Amd A1 & A2 EN 55011:1998, Amd A1 & A2 EN 55011:2009+A1:2010 EN 55022:2006 EN 55022:2010 EN 55022:1998 Excluding: TTE Equipment Clause 5.2 Section 9.5 EN 55022:1994, Amds A1 & A2 EN 55022:1987 CISPR:Pub 11:1991 CISPR:Pub 11:1990 CISPR 11:2009+A1(Ed 5.1) CISPR:Pub 13:1990 Excluding: TV	IP



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SECTION 4: (cont'd) As listed on Pages 16 and 17	<u>EMC Testing</u> (cont'd)		
	4.1.5 Fast Burst Transients	EN 61000-4-4:2004, Amd 1:2010 EN 61000-4-4:2004 EN 61000-4-4:1995, Amd A1 IEC 61000-4-4:1995 IEC 60801-4:1988 EN 61000-4-4:2014	IP
	4.1.6 Surge Immunity	EN 61000-4-5:2014 EN 61000-4-5:2014+A1:2017 EN 61000-4-5:2006 EN 61000-4-5:1995, Amd A1 IEC 61000-4-5:1995 ENV 50142:1994	IP
	4.1.7 Conducted RF Immunity 150 kHz to 230 MHz	EN 61000-4-6:2014 EN 61000-4-6:2009 EN 61000-4-6:2003 EN 61000-4-6:1996, Amd A1 IEC 61000-4-6:1996 ENV 50141:1994	IP
	4.1.8 Magnetic Immunity	EN 61000-4-8:2010 EN 61000-4-8:1993, Amd A1 IEC 61000-4-8:1993, Amd 1	IP
	4.1.9 Voltage dips and interrupts < 32 A	EN 61000-4-11:2004 EN 61000-4-11:2004+A1:2017 EN 61000-4-11:1996, Amd A1 IEC 61000-4-11:1994, Amd 1 IEC 61000-4-34:2007+A1:2009	IP
	4.1.10 Mains Harmonics	EN 61000-3-2:2006, Amd A2:2009 EN 61000-3-2:2006 EN 61000-3-2:2000 EN 61000-3-2:2014 EN 61000-3-2:2019	IP
	4.1.11 Voltage Flicker	EN 61000-3-3:2008 EN 61000-3-3:1995, Amd A1 EN 61000-3-3:2013 EN 61000-3-3:2013+A1:2019	IP
	4.1.12 Insertion Loss	CISPR 17:1981	IP



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SECTION 4: (cont'd) As listed on Pages 16 and 17	<p><u>EMC Testing</u> (cont'd) 4.2 Commercial <u>EMC Testing</u></p> <p><u>Generic and product specific standards</u> (cont'd)</p> <p>These standards are accredited to the extent that they call up the basic standards as detailed above</p>	<p>EN 54-4:1998 EN 50081-1:1992 EN 50081-2:1997 EN 50081-2:1992 EN 50082-1:1997 EN 50082-2:1995 EN 50121-4:2006 EN 50121-4:2000 EN 50121-4:2015 EN 50121-4:2016+A1:2019 EN 50130-4:1996, Amds A1 & A2 EN 50130-4:2011 EN 50130-4:2011+A1 EN 50270:2006 EN 50293:2001 EN 55014-2:1997, Amd A1 EN 55014-2:1998 +A1+A2 EN 55014-2:2015 EN 55024:1998, Amds A1 & A2 Excluding: Annex A, TTE Equipment EN 55024:2010 EN 55024:2010+A1:2015 Excluding telephony terminal equipment (Annex A), xDSL terminal equipment (Annex H) and equipment connecting to outdoor cables requiring the 10/700 surge pulse. EN 55103-1:1996 EN 55103-2:1996 EN 55104:1995 EN 60204-31:1998 EN 60601-1-2:2015 EN 60601-1-2:2007 EN 60601-1-2:1993 EN 61000-6-1:2019 EN 61000-6-1:2007 EN 61000-6-1:2001 EN 61000-6-2:2005 EN 55035:2017 (excluding Annexes A, F, H, G, xDSL ports & equipment connecting to outdoor cables requiring the 10/700 surge pulse)</p>	IP



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SECTION 4: (cont'd) As listed on Pages 16 and 17	<u>EMC Testing</u> (cont'd) 4.2 Commercial <u>EMC Testing</u> (cont'd) <u>Generic and product specific standards</u> (cont'd) These standards are accredited to the extent that they call up the basic standards as detailed above	EN 61000-6-2:2001 EN 61000-6-2:2005 EN IEC 61000-6-2:2019 EN 61000-6-3:2007 EN 61000-6-3:2007+A1:2011 EN 61000-6-3:2001 EN 61000-6-4:2007 EN 61000-6-4:2007+A1:2011 EN 61000-6-4:2001 EN 61204-3:2001 EN 61326-1:2006 EN 61326-1:2013 EN 61326-2-1:2006 EN 61326-2-2:2006 EN 61326-2-3:2006 EN 61326-2-4:2006 EN 61326-2-5:2006 EN 61326-1:1997, Amds A1 - A3 Excluding: Appendix F EN 298:2012 EN 13611:2007+A1:2011 ETSI EN 301 489-1V2.2.2 ETSI EN 301 489-1 V1.2.1 ETSI EN 301 489-1 V1.3.1 ETSI EN 301 489-1 V1.8.1 EN 301 489-1 V1.9.2: 2011 ETSI EN 301 489-3 V2.1.1 ETSI EN 301 489-3 V 1.3.1 EN 301 489-3 V1.6.1: 2012 EN 61547:1995, Amd A1 EN 61547:2009 EN 60533:2015 excluding the simultaneous Voltage and Frequency variations test IEC 60092-504:2016 excluding the simultaneous Voltage and Frequency variations test	
PMR		ETSI EN 301 489-5 V1.2.1	IP
900/1800 GSM		ETS EN 301 489-7 V1.1.1	IP



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SECTION 4: (cont'd) As listed on Pages 16 and 17 Wireless Microphones	<u>EMC Testing</u> (cont'd) 4.2 Commercial <u>EMC Testing</u> (cont'd) <u>Generic and product specific standards</u> (cont'd) These standards are accredited to the extent that they call up the basic standards as detailed above	ETSI EN 301 489-9, V1.1.1 ETSI EN 301 489-9, V1.2.1	IP
VSAT		ETSI EN 301 489-12, V1.1.1	IP
Citizen Band		ETSI EN 301 489-13, V1.1.1	IP
Paging		ETSI EN 301 489-2, V1.2.1	IP
SRD		ETSI EN 301 489-3, V1.2.1 ETSI EN 301 489-3, V1.3.1	IP
Analogue Cellular		ETSI EN 301 489-16, V1.1.1	IP



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4: (cont'd) Aerospace Components and Equipment Aerospace Materials Marine Equipment Medical Equipment Missile: Components Missiles: Guided Missiles: Unguided Power Supplies, Electrical Radar Equipment Radio Equipment Security Devices and Alarms Telecom Equipment Weapons and Sub-Assemblies	<u>EMC Testing</u> (cont'd) 4.3 <u>Military and Aircraft EMC Testing</u> 4.3.1 Conducted Emissions: 20 Hz to 150 MHz Time Domain to 10 ns (Control, Signal and Power Lines) (Exported Transients - Power Lines)	DEF STAN 59-41 (Issue 3, 4 & 5) DCE01, DCE02, DEF STD 59/411 Part 3 DCE01, DCE02, DCE03 MIL STD 461 (A, B and C) CE01, CE03, CE06 MIL STD 461 (D and E) CE101, CE102 MIL STD 461 F CE101, CE102 SPE-J-000-E-1000: Issue 1:1991 CE-EFA-1, CE-EFA-2 RTCA DO160 (A, B and C) Section 21, paragraph 21.3	IP
	4.3.2 Conducted Emissions: 10 Hz to 40 GHz (Antenna terminal)	MIL STD 461 F CE106	IP
	4.3.3 Radiated Emissions (E Field) 10 kHz - 18 GHz (Installed Antenna Method)	DEF STAN 59-41 (Issue 3, 4 & 5) DRE01, DRE03 DEF STD 59/411 Part 3 DRE01 MIL STD 461 (A, B and C) RE02 MIL STD 461 (D and E) RE102 MIL STD 461 F RE102 SPE-J-000-E-1000: Issue 1:1991 RE-EFA-1 RTCA DO160 (A, B and C) Section 21, Paragraph 21.4	IP



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SECTION 4: (cont'd) As listed on Page 22	<u>EMC Testing</u> (cont'd)		
	4.3 <u>Military and Aircraft EMC Testing</u> (cont'd)		
	4.3.4 Radiated Emissions 10 kHz - 40 GHz (Antenna spurious and harmonic outputs)	MIL STD 461 F RE103	IP
	4.3.5 Radiated Emissions (H Field) 20 Hz - 250 kHz	DEF STAN 59-41 (Issue 3, 4 & 5) DRE02 DEF STD 59/411 Part 3 DRE02 MIL STD 461 (A, B and C) RE01 MIL STD 461 (D and E) RE101 MIL STD 461 F RE101	IP
	4.3.6 Conducted Susceptibility 20 Hz - 150 kHz (Control, Signal and Power Lines) (Audio Frequency Susceptibility - Power Lines)	DEF STAN 59-41 (Issue 3, 4 & 5) DCS01, DCS03 DEF STD 59/411 Part 3 DCS01, DCS03, MIL STD 461 (A, B and C) CS01 MIL STD 461 (D and E) CS101 MIL STD 461 F CS101 SPE-J-000-E-1000: Issue 1:1991 CS-EFA-1 RTCA DO160 (A, B and C) Section 18	IP
	4.3.7 Conducted Susceptibility 10 kHz - 400 MHz (Bulk Current Injection) (Voltage Injection) (Control, Signal and Power Lines) (up to 4 Amps)	DEF STAN 59-41 (Issue 3, 4 & 5) DCS02 DEF STD 59/411 Part 3 DCS02 MIL STD 461 (A, B and C) CS02 MIL STD 461 (D and E) CS114 MIL STD 461 F CS114 SPE-J-000-E-1000: Issue 1:1991 CS-EFA-1 RTCA DO160 (A, B and C) Section 20, Paragraph 20.4	IP



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4: (cont'd) As listed on Page 22	<u>EMC Testing (cont'd)</u> 4.3 Military and Aircraft <u>EMC Testing (cont'd)</u> 4.3.8 Transient Susceptibility 10 kHz - 100 MHz (Damped Sine wave) (Pulse) (Externally Generated Transients) (Imported Long Transients) (Aircraft, Land and Sea Systems)	DEF STAN 59-41 (Issue 3, 4 & 5) DCS04, DCS05, DCS06, DCS08, DCS11 DEF STD 59/411 Part 3 DCS04 MIL STD 461 (D and E) CS116 MIL STD 461 F CS106, CS116 SPE-J-000-E-1000: Issue 1:1991 NEMP-EFA-1	IP
	4.3.9 Impulse Excitation LEMP to 30Ka (Imported Lightning Transient) (BCI Impulse Excitation) (Imported Transients) (Slow and Fast Lightning Pulse) (Voltage Spike) (Power Lines) (Pin Injection) (DEF-STAN 59-41: Short pulse to Category C, Medium pulse to Category C, Long pulse to Category D) (RTCA DO160: Pin Injection Waveform 3 Level 4, Waveform 4 and 5B Level 5, Cable Bundle Test with Ground Injection, Waveform 2 Level 2, Waveform 3 Level 3, Waveform 4 Level 2 and Waveform 5B Level 5)	DEF STAN 59-41 (Issue 3, 4 & 5) DCS09 MIL STD 461 (A, B and C) CS06 MIL STD 461 (D and E) CS115 MIL STD 461 F CS115 SPE-J-000-E-1000: Issue 1:1991 CS-EFA-4, LEMP-EFA-1, LEMP-EFA-2 RTCA DO160 (A, B and C) Section 17, Section 22	IP



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SECTION 4: (cont'd) As listed on Page 22	<u>EMC Testing</u> (cont'd)		
	4.3 <u>Military and Aircraft EMC Testing</u> (cont'd)		
	4.3.10 Electrostatic Discharge 15 kV Air, 8 kV Contact	DEF STAN 59-41 (Issue 3, 4 & 5) DCS10 (Aircraft) DEF STD 59/411 Part 3 DCS10 SPE-J-000-E-1000:Issue 1:1991 Category B and C Only RTCA DO160D Section 25	IP
	4.3.11 Radiated Susceptibility (H Field) 20 Hz - 100 kHz (Magnetic Spike Induction) (Control and Signal Lines) (Radiated Audio Frequency) (Induced Signal Susceptibility)	DEF STAN 59-41 (Issue 3, 4 & 5) DRS01 DEF STD 59/411 Part 3 DRS01 MIL-STD 461 (A, B and C) RS01, RS02 MIL STD 461 (D and E) RS101 SPE-J-000-E-1000:Issue 1:1991 RS-EFA-1, RS-EFA-2 RTCA DO160 (A, B, C, and D) Section 19	IP
	4.3.12 Radiated Susceptibility (E Field) 10 kHz - 40 GHz (up to 200 V/m)	DEF STAN 59-41 (Issue 3, 4 & 5) DRS02 DEF STD 59/411 Part 3 DRS02 MIL STD 461 (A, B and C) RS03 MIL STD 461 (D and E) RS103 MIL STD 461 F RS103 SPE-J-000-E-1000:Issue 1:1991 RS-EFA-3 RTCA DO160 (A, B, C, and D) Section 20 Paragraph 20.5	IP



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4: (cont'd) As listed on Page 22	<u>EMC Testing (cont'd)</u> 4.3 Military and Aircraft <u>EMC Testing (cont'd)</u> 4.3.13 Magnetic Field Susceptibility DC 1000 A/m AC 50 Hz, 500 A/m	DEF STAN 59-41 (Issue 3, 4 & 5) DMFS01 DEF STD 59/411 Part 3 DRS03 MIL STD 461 F RS101	IP
	4.3.14 Power Supply Variations Emissions: Steady State Voltage Ripple Surges Spikes Susceptibility: Surges	DEF STAN 61-5 Part 6 RTCA DO160 (A, B and C) Section 16 Power Input (DC Systems only)	IP
Motor vehicles, Motor vehicle Accessories and Components	4.4 Automotive Motor Vehicle <u>EMC Testing</u> 4.4.1 Conducted Emissions Conducted Emissions: 9 kHz to 30 MHz	CISPR 25:2002, Section 6	IP
	4.4.2 Radiated Emissions Electric field: 20 MHz to 1000 MHz Whole Vehicle ESA	CISPR 12:2001 Sections 5 and 6 CISPR 25:2002, 2004/104/EC Annexes IV, V, VII and VIII	IP



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SECTION 4: (cont'd) As listed on Page 26	<u>EMC Testing</u> (cont'd) 4.4 Automotive Motor Vehicle <u>EMC Testing</u> (cont'd) 4.4.3 Transient Testing Transient Emissions Transient Immunity	ISO 7637-1:2002 ISO 7637-2:2004 ISO 7637-3:1995 2004/104/EC Annex X	IP
	4.4.4 Radiated Immunity: Whole vehicle: ESA *Using OATS in 5.6	ISO 11451-1:2005* ISO 11451-2:2005* ISO 11452-1:2005 ISO 11452-2:2004 ISO 11452-4:2005 2004/104/EC Annex VI and IX	IP CR*
As listed on Page 16 to 26	4.5 Facilities 4.5.1 Anechoic Chamber, Bay 1: 12.25 m x 7.75 m x 6.5 m Access Door: 3 m x 4 m with pneumatic ramp 3 m Turntable: Maximum Weight 1.5 Tonne 4 m Mast Exhaust Extractor Screened Control Room: 1.8 m x 4.5 m x 3.2 m		IP
	4.5.2 Anechoic Chamber, Bay 2: 7 m x 4.5 m x 3.75 m Access Door: 2 m x 2 m Screened Control Room: 1.8 m x 4.5 m x 3.2 m		IP



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SECTION 4: (cont'd) As listed on Page 16 to 26	<u>EMC Testing</u> (cont'd) 4.5 Facilities (cont'd) 4.5.3 Anechoic Chamber, Bay 3: 6 m x 5 m x 3 m Access Door: 1.98 m x 0.86 m		IP
	4.5.4 Anechoic Chamber, Bay 4: 10.2 m x 7 m x 5 m Access Door: 2 m x 2 m 1.5 m Turntable: Maximum Weight 1.5 Tonne 4 m Mast Screened Control Rooms: Control 1: 1.8 m x 4.5 m x 3.2 m Control 4: 7 m x 3 m x 3.2 m		IP
	4.5.5 Screened Chamber, Bay 5: 14 m x 8 m x 3.2 m Access Door: 4 m x 2.2 m		IP
	4.5.6 Open area test site: 3 m, 10 m and 30 m covered and heated CISPR 16 site Access door: 2.9 m x 2.9 m 5m Turntable: Maximum Weight 3 tonne 4 m Mast		CR



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SECTION 4: (cont'd) As listed on Page 16 to 26	<u>EMC Testing</u> (cont'd) 4.5 Facilities (cont'd) 4.5.7 Open area test site: 3 m and 10 m CISPR 16 site Access door: 1.9 m x 2.0 m		CR
	4.5.8 Chambers Power Supplies: 115 V ac, 12.5 kVa, 60 Hz 200 V ac, 16 kVa, 3-phase, 400 Hz 200 V ac, 7 kVa, 3-phase, 380/420 Hz 240 V/415 V ac, 200 A/line, 50 Hz 28 V dc, 200 A 50-100 V dc, 100 A 680 V dc, 20 A		IP
	4.5.9 OATS Power Supplies: 115 V ac, 12.5 kVa, 60 Hz 117 V ac, 7.5 kVa, 60 Hz 240 V ac, 30 A 1-phase 50 Hz 415 V ac, 50 A/line, 3-phase, 50 Hz		CR
	4.5.10 Other Facilities: Regulated hydrovane air source up to 10.6 bar Regulated air source, 9 bar 8.5 cfm FAD		IP



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SECTION 5: ELECTRICAL WIRING ACCESSORIES	<u>Electrical Products Tests</u>		
Switches for household and similar fixed electrical installations	Electrical safety Maximum ratings: 63A, 250V ac	BS 3676-1:2000, Amds 1 & 2 EN 60669-1:2000, amd A1 and A2 IEC 60669-1:1998	CR
General requirements for electrical accessories not covered by other British Standards	Electrical safety	BS 5733:2010	CR
Appliance Connectors for household and similar general purposes	Electrical safety	EN 60320-1:2001, Amd A1 IEC 60320-1:2001 + A1:2007 Excluding: Couplers to standard sheets other than C5, C7, C13, C15, C17, C19; Clause 16.2 and 18.1 for hot connectors	CR
Appliance Connectors for household and similar general purposes – couplers dependent on appliance weight for engagement	Electrical safety	EN 60320-2-4:2006 + A1:2009 IEC 60320-2-4:2005 + A1:2009	CR
Cord-sets	Electrical safety	EN 60799:1998 IEC 60799:1998	CR
Automatic Gas Burner Control Systems	Electrical Safety Related Electronic Controls	EN 298:2012 Excluding clause 7.101.4 EN 13611:2007+A2:2011	MK

SECTION 6: Not Currently in use



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SECTION 7: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES Mains operated electronic and related apparatus for household and similar general use Including: Audio Radio TV Video & ancillary apparatus	<u>Electrical Products Tests</u> Electrical safety	BS EN 60065:2002 (CR) BS EN 60065:2014 (MK) + A1+A2+A11+A12 IEC 60065:2002 + Amd1+Amd2 Excluding: 14.11, Optocouplers Option b) Partial Discharge testing BS EN 60065/BS 415:1998, Amd 1 (withdrawn) IEC 60065:1998, (withdrawn) Excluding: Clause 18 Mechanical strength of picture tubes and for protection against effects of implosion	CR MK
Household and Similar Electrical Appliances General requirements	Electrical safety	EN 60335-1:2012+A11:2014+A1+A2+ A13:2017 + A14:2019 IEC 60335-1:2010 EN 60335-1:2002, Amds A1, A11, A12, A2, A13, A14 and A15 IEC 60335-1:2001, A1 and A2 Excluding: Clause 22.32; Oxygen bomb and sintered ceramic Annex J Annex N (>250 V) EN 60335-1:1994, Amds A1, A2 and A11 to A16 Excluding: Annex ZC	MK
Vacuum cleaners and water suction cleaning devices Excluding: Tests on current carrying hoses	Electrical Safety	EN 60335-2-2:2010 IEC 60335-2-2:2009 EN 60335-2-2:2003, Amds A1 and A2 IEC 60335-2-2:2002, Amds 1 and 2	MK



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SECTION 7: (cont'd) Electric irons	<u>Electrical Products Tests</u> (cont'd) Electrical Safety	EN 60335-2-3:2002, Amds A1, A2 and A11 IEC 60335-2-3:2002, Amds 1 and 2	MK
Spin extractors	Electrical Safety	EN 60335-2-4:2010 IEC 60335-2-4:2008 EN 60335-2-4:2002, Amds A1 and A2 IEC 60335-2-4:2002, Amds 1 and 2	MK
Dishwashers	Electrical Safety	EN 60335-2-5:2003 + A1:2005 + A2:2008 + A11:2009 * EN 60335-2-5:2003, A1, A2 and A11 IEC 60335-2-5:2002, Amd 1 and Amd 2	MK
Cooking ranges, cooking tables, ovens and similar appliances for household use Including: Boiling plates Excluding: Cooker with pyrolytic ovens	Electrical Safety	EN 60335-2-6:2003, Amds A1, A2 and A11 IEC 60335-2-6:2002, Amds 1 and 2	MK
Washing machines	Electrical Safety	EN 60335-2-7:2010 IEC 60335-2-7:2008 BS EN 60335-2-7:2003, Amds A1 and A2 IEC 60335-2-7:2002, Amds 1 and 2 Excluding: Clause 24.Z101	MK
Shavers, hair clippers and similar appliances	Electrical Safety	EN 60335-2-8:2003, Amds A1 and A2 IEC 60335-2-8:2002, Amds 1 and 2	MK



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SECTION 7: (cont'd) Toasters, grills, roasters and similar appliances Including: Portable cooking appliances Roasters and similar dry cooking appliances Toasters Sandwich toasters Waffle irons	<u>Electrical Products Tests</u> (cont'd) Electrical Safety	EN 60335-2-9:2003, Amds A1, A2 and A12 IEC 60335-2-9:2002, Amds 1 and 2	MK
Floor treatment machines and wet scrubbing machines Including: Floor polishers Excluding: Shampooers Floor scrubbers	Electrical Safety	EN 60335-2-10:2003 + A1:2008 IEC 60335-2-10:2002 + A1:2008	MK
Tumble dryers	Electrical Safety	EN 60335-2-11:2010 IEC 60335-2-11:2008	MK
Plate warmers and similar appliances Including: Portable cooking appliances	Electrical Safety	EN 60335-2-12:2003, Amd A1 IEC 60335-2-12:2002, Amd 1	MK
Deep fat fryer, electric frying pans and similar appliances	Electrical Safety	EN 60335-2-13:2003 + A1:2004 + A2:2008	MK
Kitchen machines Excluding: Kitchen knives Blenders	Electrical Safety	EN 60335-2-14:2006 + A1:2008 IEC 60335-2-14:2006 + A1:2008 BS EN 60335-2-14:2003 IEC 60335-2-14:2002	MK



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SECTION 7: (cont'd) Appliances for heating liquids Including: Cooking pans Coffee percolators Feeding bottle heaters Feed bottles Glue pots and water jackets Kettles Milk boilers Pressure cookers Portable cooking appliances Sterilizers Wash boilers Water boilers	<u>Electrical Products Tests</u> (cont'd) Electrical Safety	EN 60335-2-15:2002, Amd A1 and A2 IEC 60335-2-15:2002, A1 and A2	MK
Food waste disposers	Electrical Safety	EN 60335-2-16:2003 and A1 IEC 60335-2-16:2002 and A1	MK
Storage water heaters	Electrical Safety	EN 60335-2-21:2003, Amd A1 and A2 IEC 60335-2-21:2002, Amd 1 and Amd 2	MK
Appliances for skin or hair care. Including: Hair dryers Facial saunas Curling tongs Combs Permanent wave Steam and spray producing devices Hand dryers Warm air hand dryers But excluding Hair rollers	Electrical safety	EN 60335-2-23:2003 and A1 IEC 60335-2-23:2003 and A1	MK



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SECTION 7: (cont'd) Refrigerators, food freezers and ice makers Excluding: Flammable refrigerants	<u>Electrical Products Tests</u> (cont'd) Electrical Safety	EN 60335-2-24:2003, Amds A1, A2, A11 and A12 IEC 60335-2-24:2002, Amds 1 and 2	MK
Refrigerators, food freezers and ice makers Excluding: Flammable refrigerants	Electrical Safety	EN 60335-2-24:2003, Amds A1, A2, A11 and A12 IEC 60335-2-24:2002, Amds 1 and 2	MK
Microwave ovens	Electrical Safety	EN60335-2-25:2002, Amds A1 and A2 IEC 60335-2-25:2002, Amds 1 & 2	MK
Clocks	Electrical safety	EN 60335-2-26:2003 + A1 IEC 60335-2-26:2002 + A1	MK
Ultra-violet and infra-red radiation skin treatment appliances	Electrical safety	EN 60335-2-27:2003 + A1:2008 + A2:2008 IEC 60335-2-27:2009	MK
Sewing machines	Electrical Safety	EN 60335-2-28:2003 IEC 60335-2-28:2002	MK
Battery chargers	Electrical Safety	EN 60335-2-29:2004 +A1 IEC 60335-2-29:2002 +A1	MK
Room heaters	Electrical Safety	EN 60335-2-30:2009+A11 IEC 60335-2-30:2009 EN 60335-2-30:2003, A1 and A2, corrig IEC 60335-2-30:2002, Amds 1 and 2 (withdrawn) Excluding: Clause 22.110 coating thickness	MK



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SECTION 7: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Range hoods	Electrical Safety	EN 60335-2-31:2003, Amd A1 IEC 60335-2-31:2002, Amd 1	MK
Massage appliances	Electrical Safety	EN 60335-2-32:2003+A1 IEC 60335-2-32:2002+A1	MK
Instantaneous water heaters	Electrical safety	EN 60335-2-35:2002+A1, A2 IEC 60335-2-35:2002+A1, A2 EN 60335-2-35:2016+A1:2019	MK
Electrical heat pumps, air-conditioners and dehumidifiers	Electrical safety	BS EN 60335-2-40:2003+A13:2012 IEC 60335-2-40:2018	MK S
Pumps for liquids having a temperature not exceeding 35 °C Including: Shower boosters	Electrical safety	EN 60335-2-41:2003+A1, A2 IEC 60335-2-41:2002+A1, A2	MK
Clothes dryers and towel rails	Electrical Safety	EN 60335-2-43:2003+A1, A2 IEC 60335-2-43:2002+A1, A2	MK
Electric ironers Including: Pressing machines	Electrical safety	EN 60335-2-44:2002+A1, A2 IEC 60335-2-44:2002+A1, A2	MK
Portable heating tools and similar appliances Including: Soldering irons	Electrical safety	EN 60335-2-45:2002 +A1, A2 IEC 60335-2-45:2002 +A1, A2	MK
Electrical appliances for use with aquariums and garden pools	Electrical Safety	EN 60335-2-55:2003, Amd A1 IEC 60335-2-55:2002, Amd 1	MK



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SECTION 7: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Commercial electric dishwashing machines	Electrical safety	EN 60335-2-58:2005 + A1 + A11 IEC 60335-2-58:2002 + A1	MK
Insect killers	Electrical safety	EN 60335-2-59:2003, +A1, A2 IEC 60335-2-59:2002, +A1, A2	MK
Thermal storage room heaters	Electrical safety	EN 60335-2-61:2003 + A1, A2 IEC 60335-2-61:2002 + A1, A2	MK
Fixed immersion heaters	Electrical safety	EN 60335-2-73:2003 + A1, A2 IEC 60335-2-73:2002 + A1, A2	MK
Dispensing appliances for food, drink and packaged consumer products Excluding machines heated by gas	Electrical safety	EN 60335-2-75:2004 +A1, A2, A11, A12 IEC 60335-2-75:2002 +A1, A2 Excluding: Annex ZAA Annex ZBB	MK
Pedestrian controlled mains-operated lawn-mowers	Electrical safety	EN 60335-2-77:2010 EN 60335-2-77:2006	MK
Fans Including: Desk or table top Ventilating	Electrical safety	EN 60335-2-80:2003 + A1, A2 IEC 60335-2-80:2002 + A1, A2	MK
Amusement machines	Electrical safety	BS EN 60335-2-82:2003, Amd A1 IEC 60335-2-82:2002, Amd 1 Excluding: Clause 31	MK
Commercial refrigerating devices	Electrical safety	EN 60335-2-89:2010 IEC 60335-2-89:2002	MK



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SECTION 7: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Lawn trimmers and lawn edge trimmers	Electrical safety	IEC 60335-2-91:2008 EN 60335-2-91:2003	MK
Vaporizers	Electrical safety	EN 60335-2-101:2002 + A1 IEC 60335-2-101:2002 + A1	MK
Gas, oil and solid-fuel burning appliances having electrical connections	Electrical safety	EN 60335-2-102:2006 + A1 IEC 60335-2-102:2004 + A1	MK
Lawnmowers and similar gardening appliances	Electrical safety	BS 3456-2.32:1974, Amds 1 to 3 (withdrawn)	MK

SECTION 8: Not currently in use



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>SECTION 9: INFORMATION TECHNOLOGY EQUIPMENT</p> <p>Information technology equipment including electrical business equipment</p>	<p><u>Electrical Products Tests</u></p> <p>Electrical safety</p>	<p>BS EN 60950-1:2006 +A1, +A2:2013, A11, A12 IEC 60950-1:2005 +A1, +A2:2013 Excluding: 4.3.13.3, Effect of UV radiation on materials 4.3.13.4, Human exposure to UV radiation 4.3.13.5.2, Light emitting diodes (LEDs)</p>	<p>CR MK</p>



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Audio/video, information and communication technology equipment – Part 1: Safety requirements	Electrical safety	BS EN 62368-1: 2014 IEC 62368-1: 2014 (Ed 2) Excluding (that can be subcontracted to a separate Intertek entity): Clause 5.4.1.10 – Vicat test B 50 of ISO 306 Clause 5.4.4.6.5 – Mandrel (fig 25 to 28) test Clause 10 – Radiation (not excluding audible noise from personal music players) Annex C - UV radiation Annex G.9 – Test of IC current limiters Annex G.10 – Resistors Annex G.13 .3 to G.13.6 – Test of Coated printed boards Annex G.13.6.2 - Tests on coated printed boards (scratch pin) and metalized coatings in P.4 Annex G.15 – Test of Pressurized liquid filled components Annex G.16 - IC that includes a capacitor discharge function (ICX) Annex J – Test of Winding wires without interleaved insulation Annex M.8.2 - Protection against internal ignition from external spark sources of batteries Annex P.4 – Test for metalized coatings Annex S.3.2 - Flammability tests for the bottom of a fire enclosure (flaming oil pouring test) Annex U – Test of CRTs (mechanical strength) BS EN IEC 62368-1:2020+A11:2020 IEC 62368-1: 2018 (Ed 3.0) Excluding as 2014 above and additionally (that can be subcontracted to a separate Intertek entity): Annex G.5.3.4 - Transformers using fully insulated winding wire (FIW)	CR MK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 9: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Data processing equipment Apparatus for connection to telecommunications networks	Electrical safety	BS EN 41003:2008	CR
Telecommunications connections for business machines	Electrical safety	TS 001 Excluding: Clause 5.4.1 (7 kV surge)	CR

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 10: LUMINAIRES Track systems for luminaires	<u>Electrical Products Tests</u> Electrical safety	BS EN 60570:2003 IEC 60570:2003	MK
Luminaires General Requirements	Electrical safety Electrical, Mechanical and Thermal	BS EN 60598-1:2015 + A1:2018 IEC 60598-1:2014 BS EN 60598-1:2008, Amd 1 IEC 60598-1:2008 BS EN 60598-1:2004, Amd 1, corrig Excluding:4.2.6.2 Test chain	MK
Fixed luminaires	Electrical safety	EN 60598-2-1:1989 BS 4533:Section 102.1:1990 IEC 60598-2-1:1979, Amd 1	MK
Recessed luminaires	Electrical safety	BS EN 60598-2-2:1997, Amd 1 IEC 60598-2-2:1997, Amd 1	MK
Portable general purpose luminaires	Electrical safety	BS EN 60598-2-4:1998 IEC 60598-2-4:1997	MK
Portable luminaires for children	Electrical safety	BS EN 60598-2-10:2003, corrig IEC 60598-2-10:2003 Excluding: Clause 10.6.3.2 Clause 10.6.4 Clause 10.15.2.1	MK
Aquarium luminaires	Electrical safety	BS EN 60598-2-11:2005 IEC 60598-2-11:2005	MK
Stage lighting, television, film and photographic studio luminaires	Electrical safety	EN 60598-2-17:1989 + A2 IEC 60598-2-17:1984 + A2 BS 4533:Section 102.17:1990, Amds 1 to 3	MK



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SECTION 10: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Swimming pool luminaires	Electrical safety	BS EN 60598-2-18:1994, Amd 1 IEC 60598-2-18:1993	MK
Lighting chains	Electrical safety	EN 60598-2-20:2010 IEC 60598-2-20:2010 BS EN 60598-2-20:1998, Amds 1 and 2, Corrigs 1 to 4 IEC 60598-2-20:1996, Amds 1 & 2	MK
Emergency lighting	Electrical safety	BS EN 60598-2-22:1998 +A1, A2 IEC 60598-2-22:1997, Amds 1 & 2 Excluding: Clause 22.16, functional safety Clause 22.17 changeover operation Annex C - Luminance Measurements	MK
Lamp controlgear General and Safety Requirements	Electrical safety	BS EN 61347-1:2008 + A1, A2 IEC 61347-1:2008, Amd 1, 2 Excluding: Annex B, thermally protected lamp controlgear Annex E, magnetic ballasts Annex I, magnetic ballasts Annex K, Tests during manufacture	MK
DC and AC supplied electronic step down converters for filament lamps	Electrical safety	EN 61347-2-2:2012 IEC 61347-2-2:2011 BS EN 61347-2-2:2001, Amds 1 and 2 IEC 61347-2-2:2000 Excluding: Annex E, magnetic ballasts	MK
Miscellaneous electronic circuits used with luminaires	Electrical safety	BS EN 61347-2-11:2002 IEC 61347-2-11:2001	MK



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SECTION 10: (cont'd) DC or AC supplied electronic controlgear for LED modules	<u>Electrical Products Tests</u> (cont'd) Electrical safety	BS EN 61347-2-13:2006, corrig 1 IEC 61347-2-13:2006 Excluding: Annex E, magnetic ballasts	MK
Led Modules for general lighting. Safety specifications	Electrical safety	BS EN 62031:2008 + A1 IEC 62031:2008 + A1	MK

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 11: MEDICAL ELECTRICAL EQUIPMENT Medical electrical equipment General requirements	<u>Electrical Products Tests</u> Electrical safety Humidity pre-conditioning of equipment or relevant equipment parts limited to dimensions: 65 cm x 1.8 m x 2 m Ingress Protection Tests limited to IP1X TO IP4X IPX1 TO IPX6	BS EN 60601-1:2006 +A11 IEC 60601-1:2005 +A1 Excluding: Clause 11.7 Biocompatibility Clause 8.8.42 Ageing of Rubber Annex's G2, to G6 BS EN 60601-1:1990, Amds 1 to 3 IEC 60601-1:1988, Amds 1 and 2 Excluding: Anaesthetic Proof equipment to Clause 37 Clause 38 Clause 39 Clause 40 Clause 41 Clause 48 Biocompatibility Clause 59.2c Ageing of Rubber	CR, S* * excl. pre-cond & IP test
Medical devices - Application of risk management to medical devices	Risk Management	EN ISO 14971:2012 EN ISO 14971:2009 EN ISO 14971: 2007 EN ISO 14971: 2000	CR
Medical device software	Software life cycle processes	EN 62304:2006 + A1:2015 IEC 62304:2006 + A1:2015 EN 62304:2006 IEC 62304:2006	CR
Safety requirements for medical electrical systems	Electrical safety Medical Electrical Systems that can be transported to the accredited laboratory and are not installation dependent	BS EN 60601-1-1:2001 (withdrawn) IEC 60601-1-1:2000	CR
Radiation protection in diagnostic X-ray equipment	Radiation safety Ionising radiation measurement	IEC 60601-1-3:2008 +A1:2013 EN 60601-1-3:2008 +A1:2013 IEC 60601-1-3:2008 EN 60601-1-3:2008	CR, S



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SECTION 11: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Programmable Electrical Medical Systems	Electrical safety	IEC 60601-1-4:2006 BS EN 60601-1-4:1997 +A1 IEC 60601-1-4:1996 +A1	CR
Medical electrical equipment Usability	Electrical safety Usability	EN 60601-1-6:2010 +A1:2014 IEC 60601-1-6:2010 +A1:2014 EN 60601-1-6:2010 IEC 60601-1-6:2010 IEC 60601-1-6:2006 EN 60601-1-6:2007 + C1: 2008 & C2: 2010	CR
Medical devices - Application of usability engineering to medical devices	Electrical safety Usability	EN 62366:2008 + A1:2014 IEC 62366:2007 +A1:2014 EN 62366:2008 IEC 62366:2007	CR
Medical electrical equipment Alarm systems	Electrical safety Sound pressure and pulse waveform measurement	IEC 60601-1-8:2006 +A1 EN 60601-1-8:2007 +A1	CR, S
Medical electrical equipment Home healthcare	Electrical safety Environmental conditioning	IEC 60601-1-11:2015 EN 60601-1-11:2015 IEC 60601-1-11:2010 EN 60601-1-11:2010	CR
Medical electrical equipment Electron accelerators in the range 1 MeV to 50 MeV	Electrical safety Radiation safety Ionising radiation measurement	EN 60601-2-1:2015 IEC 60601-2-1:20009 +A1:2014 IEC 60601-2-1:2009 EN 60601-2-1:1998 +A1 IEC 60601-2-1:1998	CR, S
Medical electrical equipment Cardiac defibrillators.	Electrical safety	IEC 60601-2-4:2010 EN 60601-2-4:2011	CR, S
Medical electrical equipment. Essential performance of microwave therapy equipment	Electrical safety	IEC 60601-2-6:2012	CR, S



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SECTION 11: (cont'd) Nerve and muscle stimulators	<u>Electrical Products Tests</u> (cont'd) Electrical safety	IEC 60601-2-10:2012 + A1:2016 EN 60601-2-10:2015 + A1:2016 IEC 60601-2-10:2012 EN 60601-2-10:2015 BS EN 60601-2-10:2001 +A1 IEC 60601-2-10:1987, Amd A1	CR, S
Medical electrical equipment. Particular requirements for basic safety and essential performance of critical care ventilators	Electrical safety Gas pressure and flow rate measurement	ISO 80601-2-12:2011 EN ISO 80601-2-12:2011	CR
Medical electrical equipment. Particular requirements for basic safety and essential performance of an anaesthetic workstation	Electrical safety Gas pressure and flow rate measurement	ISO 80601-2-13:2011/Amd 1:2015 EN ISO 80601-2-13:2012	CR
Medical electrical equipment Automatically-controlled brachytherapy afterloading equipment	Electrical safety Radiation safety Ionising radiation measurement	IEC 60601-2-17:2013 EN 60601-2-17:2013 IEC 60601-2-17:2004 EN 60601-2-17:2004	CR, S
Medical electrical equipment. Essential performance of endoscopic equipment	Electrical safety	IEC 60601-2-18:2009, Ed 3.0 Excluding 201.4.1.102 ultrasonic diagnostic equipment	CR, S
Medical electrical equipment Laser equipment	Electrical safety Laser measurements	EN 60601-2-22:2013 IEC 60601-2-22:2007 +A1 Excluding CI 201.12.1.101 laser testing CI 201.12.4 laser testing CI 201.13.1 laser testing CI 201.15.101 laser testing	CR, S
Medical electrical equipment Infusion pumps	Electrical safety Mass and pressure measurement	IEC 60601-2-24:2012 IEC 60601-2-24:1998 EN 60601-2-24:1998	CR, S



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SECTION 11: (cont'd) Electrocardiographs	<u>Electrical Products Tests</u> (cont'd) Electrical safety	IEC 60601-2-25:2011 BS EN 60601-2-25:1996, Amd 1 IEC 60601-2-25:1993	CR, S
Electroencephalographs	Electrical safety	IEC 60601-2-26:2012 BS EN 60601-2-26:2003 IEC 60601-2-26:2002	CR, S
Electrocardiograph Monitoring Equipment	Electrical safety	IEC 60601-2-27:2011 BS EN 60601-2-27:2006 IEC 60601-2-27:2005	CR
Medical electrical equipment Performance of radiotherapy simulators	Electrical safety Performance	IEC 60601-2-29:2008 EN 60601-2-29:2008 +A11	CR, S
Medical electrical equipment Essential performance of automated non-invasive sphygmomanometers	Electrical safety	IEC 80601-2-30:2009 EN 80601-2-30:2010	CR, S
Medical Electrical Equipment Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis	Electrical safety	IEC 60601-2-33: Ed 3.1: 2013 IEC 60601-2-33: Ed 3.0: 2010 EN 60601-2-33: 2010 + A11: 2011	CR
Medical electrical equipment Heating devices using blankets, pads and mattresses and intended for heating in medical use.	Electrical safety	IEC 80601-2-35:2009+A1:2016 EN 80601-2-35:2009 +A1:2016 IEC 80601-2-35:2009 EN 80601-2-35:2009 +A11:2011 Excluding: Cl.7 Spark ignition test Cl. 53 Physiological closed loop controller	CR, S



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SECTION 11: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Medical electrical equipment Performance of X-ray equipment for computed tomography (CT)	Electrical safety Radiation safety Ionising radiation measurement	IEC 60601-2-44:2009 +A1 IEC 60601-2-44:2001 +A1 EN 60601-2-44:2009 +A1, A11 EN 60601-2-44:2001 +A1	CR, S
Medical electrical equipment. Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment	Electrical safety	IEC 60601-2-37:2007+AMD1:2015 EN 60601-2-37:2008+A1:2015	CR
Medical electrical equipment Operating tables.	Electrical safety	IEC 60601-2-46:2010 EN 60601-2-46:2011 Excluding: Cl.10 Annex G, equipment for use in the presence of flammable anaesthetic gases.	CR, S
Medical electrical equipment. Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems	Electrical safety	IEC 60601-2-47:2012 EN 60601-2-47:2015	CR
Medical electrical equipment	Endurance tests	IEC 60601-2-52:2009 EN 60601-2-52:2010	CR, S
Performance of medical beds	Angular and linear dimension measurements		
Medical electrical equipment. Multifunction patient monitoring equipment.	Electrical safety	IEC 60601-2-49:2011	CR, S



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SECTION 11: (cont'd) Medical electrical equipment Performance of X-ray equipment for radiography and radioscopy	<u>Electrical Products Tests</u> (cont'd) Electrical safety Radiation safety Ionising radiation measurement Velocity Pressure and force measurements	 IEC 60601-2-54:2009 EN 60601-2-54:2009	CR, S
Medical electrical equipment. Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	Electrical safety	ISO 80601-2-56:2009 EN ISO 80601-2-56:2012	CR
Medical electrical equipment. Particular requirements for basic safety and essential performance of pulse oximeter equipment	Electrical safety	ISO 80601-2-61:2011 EN ISO 80601-2-61:2011	CR
Medical Electrical Equipment. Particular requirements for basic safety performance of x-ray based image guided radiotherapy equipment for use with electron accelerators, light ion beam therapy equipment and radionuclide beam therapy equipment	Electrical safety	EN 60601-2-68:2015 IEC 60601-2-68:2014	CR

NOTE: For all standards in the IEC/EN 60601 series, client to supply appropriate water equivalent phantom body parts where needed for submitted equipment

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SECTION 12: RADIO TESTING Radio Transmitting and Receiving Equipment	<u>Radio Testing</u> Radio transmitters and receivers: Measurement frequency range: 10 kHz to 6 GHz, power output up to 150 watts Frequency Power Modulation Spurious signals Sensitivity Spurious Responses Selectivity	ETSI EN 300 220-1 V3.1.1 ETSI EN 300 220-1 V2.3.1 ETSI EN 300 220-1 V2.4.1 ETSI EN 300 220-2 V2.3.1 ETSI EN 300 220-2 V2.4.1 ETSI EN 300 330-1 V1.3.1 ETSI EN 300 330-2 V1.3.1 EN 300 328 V2.1.1	IP IP (CR for OATS)
Facilities:	Hybrid Anechoic chamber: 7 m x 3 m x 3 m Access Door: 1.5 m x 2.1 m high Control Chamber: 4.3 m x 3 m x 3 m Screened Chamber 1: 4.9 m x 3.8 m x 3 m Access Door: 0.9 m x 2.1 m high Screened Chamber 2: 4.9 m x 3.8 m x 3 m Access Door: 0.9 m x 2.1 m high Screened Chamber 3: 4.9 m x 3.8 m x 3 m Access Door: 0.9 m x 2.1 m high Power supplies: 230V ac, 50 Hz 28V dc		IP IP IP IP



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SECTION 13: TRANSFORMERS Safety of power transformers, power supply units and similar General requirements and tests	<u>Electrical Product Tests</u> Electrical safety	BS EN 61558-1:2005 + A1:2009 IEC 61558-1:2005, Amd 1 BS EN 61558-1:1998, Amds 1 & 2 IEC 61558-1:1997, Amd A1 & A11 (withdrawn)	CR MK
Isolating transformers for general use	Electrical safety	BS EN 61558-2-4:2009 IEC 61558-2-4:2009 BS EN 61558-2-4:1998, Amd 1 IEC 61558-2-4:1997	CR MK
Shaver transformers and shaver power supplies	Electrical safety	BS EN 61558-2-5:1998, Amds 1 and 2 IEC 61558-2-5:1997, Amd 1	CR
Safety isolating transformers for general use	Electrical safety	EN 61558-2-6:2009 IEC 61558-2-6:2009 BS EN 61558-2-6:1998, Amd 1 IEC 61558-2-7:1997	CR MK
Transformers for toys	Electrical safety	BS EN 61558-2-7:2007 IEC 61558-2-7:2007	CR

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SECTION 14: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES Dishwashers	<u>Performance Tests</u> Performance tests	EN 50564:2011 EN 50242:2008 + A11:2012 EN 50242:2016	MK
Tumble dryers	Performance tests	EN 50564:2011 EN 61121:2013 + A11:2019 Excluding: Clause 9.8 exhaust air volume	MK
SECTION 14: (cont'd) Washer dryers	<u>Performance Tests</u> (cont'd) Performance tests	EN 50564:2011 EN 50229:2007 EN 50228:2015/AC:2016 Excluding: Clause 6.7, Noise	MK
Washing machines	Performance tests	EN 50564:2011 IEC 60456:2010 EN 60456:2011 EN 60456:2016 Excluding: Clause 10: Shrinkage during wool wash programme	MK
Household electrical appliances - Measurement of standby and networked standby power	Power consumption	EN 50564:2011 BS EN 62301:2005 BS EN 50643:2018 IEC 62301:2005 IEC 62301:2011	MK



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SECTION 14: (cont'd) Methods of measurement for the power consumption of audio, video and related equipment	<u>Performance Tests</u> (cont'd) Power consumption	EN 50564:2011 BS EN 62301:2005 IEC 62301:2011 BS EN 62087:2009 BS EN 62087:2012 BS EN 62087-1 :2016 BS EN 62087-2 :2016 BS EN 62087-3 :2016 BS EN 62087-4 :2016 BS EN 62087-5 :2016 BS EN 62087-6 :2015 IEC 62087:2008 IEC 62087:2011 IEC 62087-1 Ed 1.0:2015 IEC 62087-2 Ed 1.0:2015 IEC 62087-3 Ed 1.0:2015 IEC 62087-4 Ed 1.0:2015 IEC 62087-5 Ed 1.0:2015 IEC 62087-6 Ed 1.0:2015	MK
External power supply units:-	Power consumption	EN 50563:2011 EN 50564:2011 BS EN 62301:2005 IEC 62301:2011	MK
Computers Desktop Computers, Integrated Computers, Notebook Computers	Performance Tests	EN 62623:2013 and EN 50564:2011	MK



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SECTION 14: (cont'd) ENERGY STAR Computers Desktop Computers, Integrated Computers, Notebook Computers, Portable All-In-One Computers, Slates/Tablet Computers	<u>Performance Tests</u> (cont'd) Performance Tests	IEC 62301:2011 and IEC 62623:2012 Energy Star Test Method for Computers, Aug 2014 Excluding: Computer Servers; Handheld computers; PDA; Smart phones; Games consoles; Handheld gaming devices	MK
Cordless phones	Performance Tests	IEC 62301:2011 Energy Star Test Method for Telephony, Nov 2013	MK
External Power Supplies	Performance Tests	IEC 62301:2005 EPRI Test Method for Calculating the Energy Efficiency of Single- Voltage External AC-DC and AC- AC Power Supplies Revised August 11, 2004	MK



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SECTION 15: ACOUSTICS TESTING	<u>Acoustical Tests</u>		
	Determination of Noise Emission in the Environment	Directive 2000/14/EC SI 1701:2001	
	Item 6 Chainsaws	EN ISO 3744:1995 as modified by 2000/14/EC	MK
	Item 9 Compressors	EN ISO 3744:1995 as modified by 2000/14/EC	MK
	Item 11 Concrete Motar Mixers	EN ISO 3744:1995 as modified by 2000/14/EC	MK
	Item 25 Hedge Trimmers	EN ISO 3744:1995 as modified by 2000/14/EC	MK
	Item 32 Lawnmowers	EN ISO 3744:1995 as modified by 2000/14/EC	MK
	Item 33 Lawn Trimmers/Lawn Edge Trimmers	EN ISO 3744:1995 as modified by 2000/14/EC	MK
	Item 34 Leaf blowers	EN ISO 3744:1995 as modified by 2000/14/EC	MK
	Item 35 Leaf collectors	EN ISO 3744:1995 as modified by 2000/14/EC	MK
	Item 40 Motor Hoes (< 3 kW)	EN ISO 3744:1995 as modified by 2000/14/EC	MK
	Item 45 Power Generators	EN ISO 3744:1995 as modified by 2000/14/EC	MK
	Item 49 Scarifiers	EN ISO 3744:1995 as modified by 2000/14/EC	MK
Item 50 Shredders/Chippers	EN ISO 3744:1995 as modified by 2000/14/EC	MK	



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SECTION 15: (cont'd)	<u>Acoustical Tests</u> (cont'd)		
Item 56 Water Pumps	Determination of Noise Emission in the Environment (cont'd)	Directive 2000/14/EC SI 1701:2001	MK
Item 57 Welding Generators		EN ISO 3744:1995 as modified by 2000/14/EC	MK



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SECTION 16: EMC SITE TESTING As listed on Pages 16 and 17	16.1 <u>Site Surveys</u>		
	16.1.1 Low Frequency Broad Band Magnetic Field 40 Hz to 2 kHz	In-House Test Procedure TP30/Z001	S
	16.1.2 Low frequency Narrow Band Magnetic Field 40 Hz to 10kHz	In-House Test Procedure TP30/Z002	S
	16.1.3 High Frequency Broad and Narrow Band Magnetic Field 10 Hz to 30 MHz (Receiver)	In-House Test Procedure TP30/Z003	S
	16.1.4 High Frequency Broad and Narrow Band Magnetic Field 10 kHz to 30 MHz (Spectrum Analyser)	In-House Test Procedure TP30/Z004	S
	16.1.5 VHF/UHF Broad and Narrow Band Electric Field 30 MHz to 1 GHz	In-House Test Procedure TP30/Z005	S
	16.1.6 Microwave Electric Field 1 GHz to 18 GHz	In-House Test Procedure TP30/Z006	S
	16.1.7 RF Voltage on Mains Supply 10 kHz to 30 MHz	In-House Test Procedure TP30/Z007	S
	16.1.8 Mains Supply Quality Monitoring: Voltage Dips, Interruptions and Transients	In-House Test Procedure TP30/Z008	S



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<p>SECTION 16: (cont'd)</p> <p>As listed in Section 4</p> <p>The standards listed in this section are performed at the customer site and limitations and deviations due to the nature of the customer site and the equipment under test are described in the Intertek site test procedure and detailed in the test reports.</p>	<p>16.1 <u>Site Surveys</u> (cont'd)</p> <p>16 Commercial EMC Site Testing</p> <p>16.1 Emissions Testing</p> <p>16.1.1 Conducted Emissions 9kHz to 30MHz</p> <p>Continuous Emissions Discontinuous Emissions</p> <p>16.1.2 Radiated Emissions</p> <p>Electric Field 30MHz to 6GHz</p> <p>Magnetic Field 9kHz to 30MHz</p> <p>16.1.3 Mains Harmonics</p> <p>16.1.4 Voltage Flicker</p>	<p>EN 55011:2016+A1:2017 EN 55011:2009 + A1:2010 EN 55014-1:2017 EN 55014-1:2006+A1:2009 +A2:2011 EN 55022:2010 Excluding TTE Equipment Clause 5.2 Section 9.5</p> <p>EN 55011:2016+A1:2017 EN 55011:2009 + A1:2010 EN 55022:2010</p> <p>EN 55014-1:2017 EN 55014-1:2006+A1:2009 +A2:2011</p> <p>EN 61000-3-2:2014</p> <p>EN61000-3-3:2013</p> <p>EN 61000-4-2:2009</p>	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 16: (cont'd) As listed in Section 4 The standards listed in this section are performed at the customer site and limitations and deviations due to the nature of the customer site and the equipment under test are described in the Intertek site test procedure and detailed in the test reports.	<u>Site Surveys</u> (cont'd) 16.2 Immunity Testing 16.2.1 Electrostatic Discharge Up to 15kV 16.2.2 Electrical Fast Transient 16.2.3 Surge Immunity 16.2.4 Conducted RF Immunity 150kHz to 1GHz 16.2.5 Magnetic Immunity 16.2.6 Voltage Dips & Interruptions 16.3 Generic and Product Specific Standards These standards are accredited to the extent that they call up the basic standards as detailed above	EN 61000-4-4:2012 EN 61000-4-5:2014 EN 61000-4-6:2014 EN 61000-4-8:2010 EN 61000-4-11:2004 EN 60601-1-2:2007 EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007 EN 61000-6-4:2007 EN61326-1:2013 All the above standards are in accordance with Intertek's EMC Site Testing Technical Work Instructions: "WI-L-EMEA-UK-07-TEST-EMC-50 OFFSITE EMISSIONS" and "WI-L-EMEA-UK-07-TEST-EMC-51 OFFSITE IMMUNITY"	



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As listed on Pages 16 and 17	16.2.1 Conducted Emissions 9 kHz to 30 MHz	EN 55011:2007, Amd A1 & A2 EN 55011:1998 EN 55011:1991 EN 55022:2006 EN 55022:1998 EN 55022:1997 as modified by in-house procedure EMC 47	S
	16.2.2 Radiated Emissions 9 kHz to 1 GHz	EN 55011:2007, Amd A1 & A2 EN 55011:1998 EN 55011:1991 EN 55022:2006 EN 55022:1998 EN 55022:1997 as modified by in-house procedures EMC 48 and EMC 54	S
	16.2.3 Conducted RF Immunity 150 kHz to 450 MHz	EN 61000-4-6:1996 as modified by in-house procedures EMC 49	S
	16.2.4 Radiated RF Immunity 450 MHz and 850 to 950 MHz	EN 61000-4-3:1996 as modified by in-house procedures EMC 49	S
	16.2.5 Electrical Fast Transients Up to 2 kV	EN 61000-4-4:1995 as modified by in-house procedures EMC 51	S
	16.2.6 Electrostatic Discharge 15 kV air discharge 8 kV contact discharge	EN 61000-4-2:1995 as modified by in-house procedures EMC 50	S



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 17: ENVIRONMENTAL TESTING Fire Detection and Fire Alarm Systems	<u>Environmental Tests</u> (non-explosive items)		
	Dry Heat Max Temp: + 180 °C Max chamber size: 1 m x 0.99 m x 1.13 m	BS EN 60068-2-2:1993 BS EN 60068-2-2:2007	CR IP
	Max Temp: + 120 °C Max chamber size: 1.99 m x 0.99 m x 0.96 m		
	Cold Min Temp: - 65 °C Max chamber size: 1 m x 0.99 m x 1.13 m	BS EN 60068-2-1:2007	CR IP
	Min Temp: - 75 °C Max chamber size: 0.75 m x 0.75 m x 0.75 m		
Min Temp: - 5 °C Max chamber size: 1.99 m x 0.99 m x 0.96 m			
Damp Heat, cyclic Temp range: - 75 °C to + 180 °C Humidity range: 10 % rh to 98 % rh Max chamber size: 1 m x 0.99 m x 1.13 m	BS EN 60068-2-30:2005 Db, Variant 1	CR IP	
Damp Heat, steady state Temp range: + 5 °C to + 180 °C Humidity range: 10 % rh to 98 % rh Max chamber size: 0.75 m x 0.75 m x 0.75 m	BS EN 60068-2-78:2001 Cab BS EN 60068-2-78:2013 Cab	CR IP	
Humidity range: 10 %rh to 93 %rh Max chamber size: 1 m x 0.99 m x 1.13 m			



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SECTION 17: (cont'd) Fire Detection and Fire Alarm Systems (cont'd)	<u>Environmental Tests</u> (non-explosive items) (cont'd) Shock, via shock machine (half sine) Max severity: 5000 g Max drop: 2.1 m Max velocity: 10 m/s	 BS EN 60068-2-27:1993 Ea BS EN 60068-2-27:2009 Ea	 CR
	Vibration, Sinusoidal (ambient temperature) Freq range: 2 to 5000Hz Peak thrust: 2.2 kN Max pk/pk displacement: ± 12.5 mm	BS EN 60068-2-6:1995 Fc BS EN 60068-2-6:2008 Fc	CR IP
Batteries	Mechanical, climatic & electrical CRUSH Test 2, Nail Penetration, Electrical	IEC 62133 SAE 12405	CR CR
Battery for transportation tests	Mechanical, climatic & electrical	IEC 62281 (UN)	CR
Military equipment	Mechanical and climatic	MIL STD 810G	CR



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SECTION 18: ENCLOSURES FOR ELECTRICAL EQUIPMENT	<u>Electrical Product Tests</u>		
Enclosures for Electrical Equipment	Ingress Protection Tests		
	IP1X Protected against solid objects greater than 50 mm diameter	BS EN 60529:1992, Amds 1 and 2	CR, MK
	IP2X Protected against solid objects greater than 12 mm diameter		CR, MK
	IP3X Protected against solid objects greater than 2.5 mm diameter		CR, MK
	IP4X Protected against solid objects greater than 1.0 mm diameter		CR, MK, CH
	IP5X Dust Protected Excluding: Objects greater than 570 x 570 x 570 mm (CR) 800 (w) x 800 (D) x 1400 (H) mm (CH)		CR, CH, MK
	IP6X Dust Protected Excluding: Objects greater than 570 x 570 x 570 mm (CR) 800 (w) x 800 (D) x 1400 (H) mm (CH)		CR, CH, MK
	IPX1 Protected against dripping water		CR, MK
	IPX2 Protected against dripping water when tilted up to 15°		CR, MK
IPX3 Protected against spraying water		CR, MK	
IPX4 Protected against splashing water		CR, MK, CH	



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SECTION 18: (cont'd)	<u>Electrical Product Tests</u> (cont'd)		
Enclosures for Electrical Equipment (cont'd)	Ingress Protection Tests (cont'd)		
	IPX5 Protected against water jets	BS EN 60529:1992, Amds 1 and 2 (cont'd)	CR, MK, CH
	IPX6 Protected against heavy seas		CR, MK, CH
	IPX7 Protected against the effects of immersion Excluding: Objects greater than 1200 (h) x 850 (w) x 1000 (l) mm		CR, MK, CH
	IPX8 Protected against the effects of immersion Excluding: Objects greater than 400 (h) x 850 (w) x 1000 (l) mm		CR, CH, MK



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SECTION 19: FIRE / Intruder DETECTION & FIRE/Intruder ALARM SYSTEMS:	<u>Performance Tests</u>		
Control and Indicating Equipment for Fire safety	Performance & endurance	EN 54-2:1998, Amds 1 and 2	IP
Sounders	Performance & endurance	EN54-3:2014+A1:2019 EN 54-3:2001, Amds 1 and 2	IP
Power supplies for CIE	Performance & endurance	EN 54-4:1998, Amds 1 and 2	IP
Heat Detectors	Performance & endurance	EN54-5:2017+A1:2018 EN 54-5:2001, Amd 1	IP
Smoke Detectors	Performance & endurance	EN 54-7:2001, Amds 1 and 2 EN 54-7:2018	IP
Flame Detectors	Performance & endurance	EN 54-10:2002	IP
Manual Call-points	Performance & endurance	EN 54-11:2001, Amd 1, Corrig	IP
Optical Detectors	Performance & endurance	EN 54-12:2002	IP
Systems assessment	Compatibility & Performance	EN 54-13:2005	
CIE for Voice Alarm systems	Performance & endurance	EN 54-16:2008	IP
Isolators	Performance & endurance	EN54-17:2005+A1:2007 EN 54-17:2005	IP
I/P & O/P Devices	Performance & endurance	EN 54-18:2005	IP
Smoke Alarms	Performance & endurance	EN 54-20:2006	
Fire & Fire warning routing equipment	Performance & endurance	EN 54-21:2006	
Visual Alarm Devices	Performance & endurance	EN 54-23:2010	IP
Loudspeakers for VACIE	Performance & endurance	EN 54-24:2008	IP
Radio devices for Fire related products	Performance & endurance	EN 54-25:2008	IP
Duct Smoke Detectors	Performance & endurance	EN 54-27:2015	IP



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SECTION 19: (cont'd)	<u>Performance Tests</u> (cont'd)		
Multi-sensor fire detectors. Point detectors using a combination of smoke and heat sensors	Performance & endurance	EN 54-29:2015	IP
Domestic Smoke alarms	Performance & endurance	EN 14604:2005+A1:2007 EN 14604:2005	IP
Domestic Heat alarms	Performance & endurance	BS 5446-2:2003	IP
Intruder and Hold up Alarm Systems (I&HAS)	Performance & endurance	EN 50131-3:2009	IP
I&HAS – Power Supply Equipment	Performance & endurance	EN 50131-6:2008	IP
I&HAS – Radio Devices	Performance & endurance	EN 50131-5-3:2005 +A1	IP
Alarm Transmission Systems – General requirements	Performance & endurance	EN 50136-1-1:1998 +A1, A2	IP
Alarm Transmission Systems – Equipment	Performance & endurance	EN 50136-2-1:1998 +A1, A2	IP
Alarm Transmission Equipment – Packet Switched network	Performance & endurance	EN 50136-1-5:2008	IP
Passive Infrared Detectors	Performance & endurance	EN 50131-2-2:2008	IP
Microwave detectors	Performance & endurance	EN 50131-2-3:2008	IP
Combined Passive and Microwave Detectors	Performance & endurance	EN 50131-2-4:2008	IP
Opening Contacts - Magnets	Performance & endurance	EN 50131-2-6:2008	IP
I&HAS – Warning devices	Performance & endurance	EN 50131-4:2008	IP
Supervised Premises Transceiver	Performance & endurance	prEN 50131-10: April 2011	IP
Access Control General requirements	Performance & endurance	EN 50133-1:1997	IP



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SECTION 19: (cont'd)	<u>Performance Tests</u> (cont'd)		
Access Control System requirements	Performance & endurance	EN 50133-2-1:2000	IP
Alarm Systems – Alarm Transmission Systems & Equipment – General requirements	Performance & endurance	EN 50136-1: 2012	IP
Requirements for Supervised Premises Transmission	Performance & endurance	EN 50136-2: 2013	IP
Requirements for Supervised Premises Transmission – Sweden national deviations	Performance & endurance	SSF 114	IP
	Note: For the EN 54 series of standards: - General Performance and Environmental testing is performed at Cleeve Road - CR EMC Testing is performed at Imperial Park - IP Sound Level testing is performed at Imperial Park Unit C		

END