Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0029

Accredited to ISO/IEC 17025:2017

Intertek Testing & Certification Ltd

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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
Address Unit C&D Imperial Park Randalls Way Leatherhead Surrey KT22 7TS	**Local contact** Greg Childs Mobile: +44 (0)1372 370900 Email: mailing.uk@intertek.com	Schedule Sections: 2, 3, 4, 11,12, 13, 16, 17, 18	IP
Address Research & Performance Testing Centre Davy Avenue Knowhill Milton Keynes MK5 8NL	**Local contact** Greg Childs Mobile: +44 (0)1372 370900 Email: mailing.uk@intertek.com	Schedule Sections: 5, 7, 8, 10, 13, 14, 15, 17	MK
Address Francis Smith House Manor Lane Deeside Chester CH5 3PJ	**Local contact** Jack Thomas Tel: +44 (0)1244 882590 Fax: +44 (0)1244 882599 Email: Jack.Thomas@intertek.com	Schedule Sections: 2 and 17	CH

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Any	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 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 in a new revision of product standards is technically equivalent to the Standards already included under the accredited scope and does not introduce new principles of measurement and the changes do not affect the technical requirements of the scheme and / or the competence requirements

(2) The method or standard does not require measurements to be made outside the parametric boundaries defined in this Schedule.

Flexible scope is managed through in-house procedure LMS-EMEA-UK-SP-11 for flexible accreditation, which defines the boundaries of technical equivalence.

Information about flexible scopes of accreditation is available in UKAS document GEN 4 and EA document EA-2/15.

DETAIL OF ACCREDITATION

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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In sections 2, 4, 7, 9, 11, 13 and 17 where IEC, EN or BS EN standards have exact equivalents in BS EN or EN Standards, these BS EN or EN standards are also included in the accreditation.

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 1: CONTROLS	<u>Electrical Products Tests</u>		
Automatic controls for household and similar use General requirements	Electrical safety	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
Automatic Electrical Controls	Electrical Safety	BS EN 60730-1:2016+A1: 2019 +A2:2022+A11:2024BS EN 60730-1 :2016 BS EN 60730-1 :2016 + A1 :2019	
Thermal motor protectors Automatic Electrical Controls	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 EN 60730-2-22:2020	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 1: (cont'd) Water valves	Electrical Products Tests (cont'd) Electrical safety	EN 60730-2-8:2002, Amd A1 IEC 60730-2-8:2000, Amd 1 EN IEC 60730-2-8:2020+A1:2021 EN IEC 60730-2-8:2025Excluding: 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
Air flow, Water flow and Water level sensing – for water level sensing only	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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	IP, 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	IP, CH
Tests for Pressurised and Purged Apparatus (Exp)	Construction, safety and marking	IEC 60079-2:2014 IEC 60079-2:2007	IP, CH
Tests for Powder Filling Apparatus (Exq)	Construction, safety and marking	IEC 60079-5: 2015 IEC 60079-5:2007	IP
Tests for Liquid Immersion Apparatus (Ex o)	Construction, safety and marking	IEC 60079-6: 2015 IEC 60079-6:2007	IP, CH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 2: (cont'd)	Electrical Products Tests (cont'd)		
Tests for Increased Safety Apparatus (Ex e)	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	IP, 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	IP, 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	IP, 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	IP, 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)	IP, CH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 2: (cont'd)	Electrical Products Tests (cont'd)		
Explosive atmospheres – Intrinsically safe electrical systems	Construction, safety and marking	IEC 60079-25:2020 IEC 60079-25:2010 IEC 60079-25:2003	IP
Explosive atmospheres - Equipment with Equipment Protection Level (EPL) Ga	Construction, safety and marking	IEC 60079-26:2014 IEC 60079-26:2006	IP, CH
Explosive atmospheres - Protection of equipment and transmission systems using optical radiation	Construction, safety and marking	IEC 60079-28:2015 IEC 60079-28:2006	IP, CH
Explosive atmospheres - Equipment dust ignition protection by enclosure "t"	Construction, safety and marking	IEC 60079-31: 2022 EN IEC 60079-31: 2024	IP, CH
Explosive atmospheres – Electrical resistance trace heating – General and testing requirements	Construction, safety and marking	IEC 60079-30-1: 2015	IP, 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	IP, 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	IP, CH

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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 2: (cont'd)	Electrical Products Tests (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"	Construction, safety and marking	ISO 80079-37:2016	IP, CH
Design of fans working in potentially explosive atmospheres	Construction, safety and marking	BS EN 14986: 2017 BS EN 14986: 2007	IP, 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	IP
Reciprocating internal combustion engines	Safety Tests	BS EN 1834-2:2000	IP
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	IP
Explosion Venting Devices	Safety tests	EN 14797: 2006	IP, CH
LPG equipment and accessories – Construction and performance of LPG equipment for automotive filling stations – Part 1: Dispensers	Electrical and mechanical safety	EN 14678-1:2013	IP, CH

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 2: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
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	IP, 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	IP, CH
Cable glands for electrical installations	Electrical and mechanical safety	EN 62444:2013	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 2: (cont'd)	Electrical Products Tests (cont'd)	Procedures I and II for the following parts of MIL-STD 810	IP
Explosive Atmosphere Tests	Safety tests	MIL STD 810B Method 511:1967 MIL STD 810C Method 511.1:10 March 1975 MIL STD 810D Method 511.2:1983 MIL STD 810E Method 511.3:1989 MIL STD 810F Method 511.4:2000 MIL STD 810F Method 511.4:2002 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 RTCA/DO-160D, Section 9 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 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	

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.

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 3: ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL AND LABORATORY USE	<u>Electrical Product Tests</u>		
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 61010-1:2010 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, Lasers	IP, S
Laboratory equipment for the heating of materials	Electrical safety	EN 61010-2-010:2003 IEC 61010-2-010:2003	IP
Hand held current clamps for electrical measurement and test	Electrical safety	BS EN 61010-2-32:2002 IEC 61010-2-32:2002	IP
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	IP
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	IP
In-vitro diagnostic (IVD) medical equipment	Electrical safety	EN 61010-2-101: 2015 IEC 61010-2-101: 2015	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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 Multimedia Equipment 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 Satellites and Sub-Assemblies Security Devices and Alarms	EMC Testing 4.1 Commercial EMC Testing 4.1.1 Conducted Emissions Conducted emissions: 9 kHz to 30 MHz Continuous emissions Discontinuous emissions	**ALL EMC STANDARDS** EN 55015:2013 + A1:2015 EN 55016-2-1:2009+A1:2011 +A2:2013 EN 55016-2-1:2014 EN 55016-2-1:2014+A1:2017 EN 55011:2007, Amd A1 & A2 EN 55011:2009+A1:2010 EN 55011:2016 +A1:2017 +A2:2021 EN IEC 55014-1:2021 EN 55014-1:2017 EN 55014-1:2006+A1:2009 +A2:2011 EN 55032:2015 EN 55032:2015 + A1:2020	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4: (cont'd) Smoke Detectors Switchboards: Electrical Telecom Equipment Transformers: Electrical Tools: Hand Tools: Machine Toys Video Equipment Radio Agency EMC Short Range Devices Private Mobile Radio and Ancillary Equipment On-site Paging Standard Radio Equipment CB Radio Wireless Microphones Wide Band Audio Links CTO (UK CTI)	<u>EMC Testing</u> (cont'd) 4.1.2 Radiated Emissions: Electric field: 30 MHz to -6 GHz Magnetic field: 9 kHz to 30 MHz Radiated Power: 30 MHz to 300 MHz	EN 55011:2007, Amd A1 & A2 EN 55011:2009+A1:2010 EN 55011:2016 +A1:2017 +A2:2021 EN 55015:2013 +A1:2015 EN IEC 55014-1:2021 EN 55022:2010 Excluding: TTE Equipment Clause 5.2 Section 9.6 EN 55032:2015 EN 55032:2015 + A1:2020	IP

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 Pages 15 and 16 (cont'd)	<u>EMC Testing</u> (cont'd) 4.1.2 Radiated Emissions (cont'd) Radiated Emissions Electric field: 30 MHz to 18 GHz Magnetic field: 9 kHz to 30 MHz	 EN 55016-2-3:2010+A1:2014 +A2:2017 EN 55016-2-3:2010+A1:2010 +A2:2014 EN IEC 55016-2-3:2017+A1:2019 EN 55016-2-3:2017 EN 55016-2-3:2010+A1:2010 +A2:2014 EN 55016-2-3:2017	 IP
	4.1.3 Electrostatic discharge up to 15 kV	EN 61000-4-2:2009	IP
	4.1.4 Radiated E-Field Immunity 80 MHz to 6 GHz 50 V/m	EN 61000-4-3:2006, Amd 1:2008 EN 61000-4:2020	IP
	4.1.5 Fast Burst Transients	EN 61000-4-4:2004, Amd 1:2010 EN 61000-4-4:2004 EN 61000-4-4:2012	IP
	4.1.6 Surge Immunity	EN 61000-4-5:2014 EN 61000-4-5:2014+A1:2017 EN 61000-4-5:2006	IP
	4.1.7 Conducted RF Immunity 150 kHz to 230 MHz	EN 61000-4-6:2014 EN 61000-4-6:2009	IP

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 Pages 15 and 16 (cont'd)	<u>EMC Testing</u> (cont'd) 4.1.8 Magnetic Immunity	EN 61000-4-8:2010 EN 61000-4-8:1993, Amd A1 IEC 61000-4-8:1993, Amd 1 ISO 61000-4-39:2017 (9kHz to 13.56MHz only)	IP
	4.1.9 Voltage dips and interrupts < 32 A	EN IEC 61000-4-11: 2020 EN 61000-4-11:2004 EN 61000-4-11:2004+A1:2017 EN 61000-4-11:1996, Amd A1 EN 61000-4-11:1994, Amd 1 EN 61000-4-11:2020 EN 61000-4-34:2007+A1:2009	IP
	4.1.10 Mains Harmonics	EN 61000-3-2:2014 EN 61000-3-2:2019 EN 61000-3-2:2019+A1:2021	IP
	4.1.11 Voltage Flicker	EN 61000-3-3:2013 EN 61000-3-3:2013+A1:2019 EN 61000-3-3:2013+A1:2019+A2: 2021	IP

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 Pages 15 and 16 (cont'd)	EMC Testing (cont'd) 4.2 Commercial EMC Testing Generic and product specific standards (cont'd) These standards are accredited to the extent that they call up the basic standards as detailed above	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 55011:2016 EN 55011:2016 + A1:2017 EN IEC 55014-2:2021 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 55035:2017, EN 55035:2017 + A11:2020 (excluding Annexes A, F, H, G, xDSL ports & equipment connecting to outdoor cables requiring the 10/700 surge pulse) EN 55103-1:1996 EN 55103-2:1996 EN 55104:1995	IP
Short Range Devices		EN 60601-1-2:2015 EN 60601-1-2:2007 EN 60601-1-2:1993 EN 60601-1-2:2015 + A1:2021	

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 Pages 15 and 16 (cont'd) PMR 900/1800 GSM	EMC Testing (cont'd) 4.2 Commercial EMC Testing (cont'd) Generic and product specific standards (cont'd) These standards are accredited to the extent that they call up the basic standards as detailed above	EN IEC 61000-6-1:2019 EN 61000-6-1:2007 EN 61000-6-3:2007 EN 6100-6-3:2007 + A1:2011 EN 61000-6-2:2005 EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021 EN 61000-6-4:2007 EN 61000-6-4:2007 + A1:2011 EN IEC 61000-6-4:2019 EN IEC 61000-6-8:2020 EN 61204-3:2001 EN 61326-1:2006 EN 61326-1:2013 EN IEC 61326-1:2021 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 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 ETSI EN 301 489-1 V2.2.2 ETSI EN 301 489-1 V1.3.1 ETSI EN 301 489-1 V1.8.1 ETSI EN 301 489-1 V1.9.2 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-3 V2.1.1 ETSI EN 301 489-3 V1.3.1 ETSI EN 301 489-3 V1.6.1 ETSI EN 301 489-3 V2.3.2	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4: (cont'd)	EMC Testing (cont'd)		IP
As listed on Pages 15 and 16 (cont'd)	4.2 Commercial EMC Testing (cont'd)		
	Generic and product specific standards (cont'd)		
Wireless Microphones		ETSI EN 301 489-5 V1.2.1	
VSAT		ETS EN 301 489-7 V1.1.1	
	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
		ETSI EN 301 489-12, V1.1.1	
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
Broadband and Wideband Data Transmission Systems		ETSI EN 301 489-17, V3.3.1 ICES-001 Issue 5 (Jul 2020) ICES-003 Issue 7 (Oct 2020)	

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 Pages 15 to 21	<u>EMC Testing</u> (cont'd) 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
	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

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 Pages 15 to 21	<u>EMC Testing</u> (cont'd) 4.5 Facilities (cont'd) 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
	4.5.8 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
	4.5.10 Other Facilities: Regulated hydrovane air source up to 10.6 bar Regulated air source, 9 bar 8.5 cfm FAD		IP

SECTION 5: Not Currently in use
SECTION 6: Not Currently in use

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 7: Household and Similar Electrical Appliances Household and Similar Electrical Appliances General requirements	<u>Electrical Products Tests</u> Electrical Safety	EN IEC 60335-1:2023 +A11:2023 EN 60335-1:2012+A16:2023 IEC 60335-1:2010 EN 60335-1:2012 +A11:2014 +A13:2017 +A1+A2+A14:2019 +A15:2021, WITHDRAWN IEC 60335-1:2001, A1:2004 and A2:2006 Excluding: Clause 22.32; Oxygen bomb and sintered ceramic Annex J Annex N (>250 V) EN 60335-1:1994, Amds A1, A12:1996 and A11:1995, A12:1996, A13:1998, A14:1998, A15:1995, A2:2000 - Withdrawn to A16 Excluding: Annex ZC	MK
Dishwashers	Electrical Safety	EN 60335-2-5:2003 + A1:2005 + A2:2008 + A11:2009 * EN 60335-2-5:2003, A1, A2 and A11 – (Withdrawn) IEC 60335-2-5:2002, Amd 1:2005 and Amd 2:2008	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 - withdrawn, Amds A1:2004, A2:2008 and A11 IEC 60335-2-6:2002, Amds 1:2004 and 2:2008	MK

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 7: (cont'd)	Electrical Products Tests (cont'd)		
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 1:2004 and 2:2008 excluding: Clause 24.Z101	MK
Shavers, hair clippers and similar appliances	Electrical Safety	EN 60335-2-8:2003 – withdrawn, Amds A1:2005 and A2:2008 IEC 60335-2-8:2002, Amds 1:2005 and 2:2008	MK
Toasters, grills, roasters and similar appliances Including: Portable cooking appliances Roasters and similar dry cooking appliances Toasters Sandwich toasters Waffle irons	Electrical Safety	EN 60335-2-9:2003, Amds A1:2004, A2:2006 and A12:2007 IEC 60335-2-9:2002, Amds 1:2004 and 2:2006	MK
Tumble dryers	Electrical Safety	EN 60335-2-11:2010 IEC 60335-2-11:2008	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 - withdrawn IEC 60335-2-14:2002	MK

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 7: (cont'd)	Electrical Products Tests (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	Electrical Safety	EN 60335-2-15:2002 - withdrawn, Amd A1:2005 and A2:2008 IEC 60335-2-15:2002, A1:2005 and A2:2008	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 A1:2008 IEC 60335-2-23:2003 and A1:2008	MK
Refrigerators, food freezers and ice makers Excluding: Flammable refrigerants	Electrical Safety	EN 60335-2-24:2003, Amds A1:2005, A2:2007, A11:2004 and A12:2009 IEC 60335-2-24:2002, Amds 1:2005 and 2:2006	MK

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 7: (cont'd)	Electrical Products Tests (cont'd)		
Room heaters	Electrical Safety	EN 60335-2-30:2009 +A11:2012+A12:2020 IEC 60335-2-30:2009 EN 60335-2-30:2003 - withdrawn, A1:2004 and A2:2007, corrig IEC 60335-2-30:2002, Amds 1:2004 and 2:2007 (withdrawn) Excluding: Clause 22.110 coating thickness	MK
Massage appliances	Electrical Safety	EN 60335-2-32:2003+A1:2008 IEC 60335-2-32:2002+A1 :2008	MK
Instantaneous water heaters	Electrical Safety	EN 60335-2-35:2002 +A1 :2006, A2 :2011 - withdrawn IEC 60335-2-35:2002+A1:2006, A2:2009 EN 60335-2-35:2016 +A1:2019 + A2 :2021	MK
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 :2008, A2 :2011	MK
Commercial electric dishwashing machines	Electrical Safety	EN 60335-2-58:2005 + A1 :2005 + A11 :2009 IEC 60335-2-58:2002 + A1 :2008	MK
Thermal storage room heaters	Electrical Safety	EN 60335-2-61:2003 + A1, A2 IEC 60335-2-61:2002 + A1:2005, A2:2008	MK

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 7: (cont'd)	Electrical Products Tests (cont'd)		
Fixed immersion heaters	Electrical Safety	EN 60335-2-73:2003 + A1:2006, A2:2009+A11:2021 IEC 60335-2-73:2002 + A1:2004, A2:2009	MK
Dispensing appliances for food, drink and packaged consumer products Excluding machines heated by gas	Electrical Safety	EN 60335-2-75:2004 +A1:2004, A2:2008, A11:2005, A12:2009 IEC 60335-2-75:2002 +A1:2004, A2:2008 Excluding: Annex ZAA Annex ZBB	MK
Fans Including: Desk or tabletop ventilating	Electrical Safety	EN 60335-2-80:2003 + A1 :2004, A2 :2009 IEC 60335-2-80:2002 + A1 :2004, A2 :2008	MK
Commercial refrigerating devices	Electrical Safety	EN 60335-2-89:2010 IEC 60335-2-89:2002	MK
Vaporizers	Electrical Safety	EN 60335-2-101:2002 + A1 :2008 IEC 60335-2-101:2002 + A1 :2008	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 :2008	MK
Household and similar electrical appliances Particular requirements for beauty care appliances incorporating lasers and intense light sources - Annex R (software evaluation).	Electrical Safety	IEC 60335-2-113 – Part 2-113	MK

SECTION 8: Not currently in use

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 9: INFORMATION TECHNOLOGY EQUIPMENT	Electrical Products Tests	BS EN IEC 62368-1:2024 + A11:2024 IEC 62368-1:2023 (Ed 4) Excluding : 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)	MK

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 9: INFORMATION TECHNOLOGY EQUIPMENT (cont'd)	Electrical Products Tests (cont'd)		
Audio/video, information and communication technology equipment – Part 1: Safety requirements	Electrical safety	BS EN 62368-1: 2014 (withdrawn) IEC 62368-1: 2014 (Ed 2) (Superseded) BS EN IEC 62368−1:2020+A11:2020 (Superseded) IEC 62368-1: 2018 (Ed 3.0) (Superseded) 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)	MK
In the above Section 9 where IEC or BS EN standards have exact equivalents in EN Standards, these EN standards are also included in the accreditation.			

SECTION 10: Not Currently in use

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	EN 60601-1:2006+A2:2021 IEC 60601-1:2005 +AMD1:2012+AMD2:2020 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	IP, 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	IP
Radiation protection in diagnostic X-ray equipment	Radiation safety Ionising radiation measurement	IEC 60601-1-3:2008 +A1:2013+A2 :2021 EN 60601-1-3:2008 +A1:2013+A2 :2020	IP, S
Programmable Electrical Medical Systems	Electrical safety	IEC 60601-1-4:1996 +A1	IP
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	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 11: (cont'd)	Electrical Products Tests (cont'd)		
Medical devices - Application of usability engineering to medical devices	Electrical safety Usability	EN 62366:2008 + A1:2014 IEC 62366:2007 +A1:2014	IP
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	IP, 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	IP
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	IP, S
Medical electrical equipment Cardiac defibrillators.	Electrical safety	IEC 60601-2-4:2010 EN 60601-2-4:2011	IP, S
Nerve and muscle stimulators	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	IP, 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	IP, S
Electrocardiographs	Electrical safety	IEC 60601-2-25:2011	IP, S
Electroencephalographs	Electrical safety	IEC 60601-2-26:2012 BS EN 60601-2-26:2003 IEC 60601-2-26:2002	IP, S

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 11: (cont'd) Electrocardiograph Monitoring Equipment	<u>Electrical Products Tests</u> (cont'd) Electrical safety	 IEC 60601-2-27:2011	 IP
Medical electrical equipment Essential performance of automated non-invasive sphygmomanometers	Electrical safety	IEC 80601-2-30:2009 EN 80601-2-30:2010	IP, S
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 Excluding: Cl.7 Spark ignition test Cl. 53 Physiological closed loop controller	IP, S
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 EN 60601-2-44:2009 +A1, A11	IP, S
Medical electrical equipment. Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment	Electrical safety	IEC 60601-2-7:2007+AMD1:2015 EN 60601-2-37:2008+A1:2015	IP
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.	IP, 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	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 11: (cont'd) Medical electrical equipment. Multifunction patient monitoring equipment.	Electrical Products Tests (cont'd)	IEC 60601-2-49:2011	IP, S
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	IP
NOTE: For all standards in the IEC/EN 60601 series, client to supply appropriate water equivalent phantom body parts where needed for submitted equipment			
In the above Section 11 where IEC or BS EN standards have exact equivalents in EN Standards, these are also included in the accreditation.			

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 12: RADIO TESTING	<u>Radio Testing</u>		
Radio Transmitting and Receiving Equipment	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	IP
	RED Directive testing for wideband transmission systems operating in the 2.4 GHz band. Measurement Frequency range 1 GHz to 12.75 GHz	EN 300 328 V2.1.1 EN 300 328 V 2.2.2 2019-07	IP
	Short Range Devices (SRD): 1 – 18 GHz SRDs EIRP Operating frequencies Spurious emissions 25MHz to 40 GHz Duty cycle Selectivity Blocking LBT	EN 300 440 v2.2.1	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 12: RADIO TESTING (cont'd)	Radio Testing (cont'd)		
Radio Transmitting and Receiving Equipment (cont'd)	Radio transmitters and receivers: Measurement frequency range: 10kHz to 12.75GHz	AS.NZS 4268 2017 AS.NZS 4268 2017 A1 2021(Using methods described in EN 300 330, EN 300 220-1 and EN 300 328 only)	IP
Wi-Fi equipment or similar.	5 GHz WAS/RLAN: Frequency Channel bandwidth RF output power Power spectral density Spurious emissions DFS Adaptivity Blocking Selectivity	EN 301 893 v2.2.1	IP
Electronic Devices: 13 MHz NFC device or similar	Short Range Devices (SRD); Radio equipment in the frequency range 9kHz to 25MHz and inductive loop systems in the frequency range 9kHz to 30MHz 10kHz to 12.75GHz	EN 300 330 V2.1.1 (2017-02)	IP
Radio Transmitting and Receiving Equipment (cont'd)	Human exposure to electromagnetic fields RF safety evaluation	EN 50360 2017 (No SAR testing capability - calculation only) EN 50385 2017 (No SAR testing capability - calculation only) EN 50566 2017 (No SAR testing capability - calculation only) EN 62479 2010 (No SAR testing capability - calculation only)	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 12: RADIO TESTING (cont'd)	Radio Testing (cont'd)		
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		IP
	Semi-Anechoic Chamber (Bay 3): 8.9 m x 5.6 m x 5.7 m Access Door: 2.0 m x 2.1 m with ramp Turntable: 2.0 m ; 1000 kg max. load Antenna Mast: 4.0 m with tilt Control Chamber: 5.6 m x 3.0 m x 2.7 m		IP
	Screened Chamber 1: 4.9 m x 3.8 m x 3 m Access Door: 0.9 m x 2.1 m high		IP
	Screened Chamber 2: 4.9 m x 3.8 m x 3 m Access Door: 0.9 m x 2.1 m high		IP
	Screened Chamber 3: 4.9 m x 3.8 m x 3 m Access Door: 0.9 m x 2.1 m high		IP
	Power supplies: 230V ac, 50 Hz 28V dc		IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 13: TRANSFORMERS	<u>Electrical Product Tests</u>		
Safety of power transformers, power supply units and similar General requirements and tests	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)	IP, 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	MK
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	MK
In the above Section 13 where IEC or BS EN standards have exact equivalents in EN Standards, these EN standards are also included in the accreditation.			

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 14: Household and Similar Electrical Appliances - Performance Testing	<u>Performance Tests</u>		
Electrical and electronic household and office equipment - Measurement of networked standby power consumption of edge equipment	Power consumption	EN 50564:2011 BS EN 50643:2018 +A1:2020 IEC 62301:2005 (Withdrawn) IEC 62301:2011 BS EN IEC 63474:2023	MK
Electrical and electronic household and office equipment - Measurement of networked standby power consumption of edge equipment	Power consumption	EN 50564:2011 IEC 62301:2011 BS EN 50643:2018+A1:2020 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 62087-1 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 BS EN IEC 63474:2023	MK
External power supply units	Power consumption	EN 50563:2011 +A1:2013 EN 50564:2011 IEC 62301:2011	MK
Computers Desktop Computers, Integrated Computers, Notebook Computers	Performance Tests	EN 62623:2013 and EN 50564:2011	MK

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 15: ACOUSTICS TESTING	Acoustical Tests	Directive 2000/14/EC SI 1701:2001	MK
Item 6 Chainsaws	Determination of Noise Emission in the Environment	EN ISO 3744:1995 as modified by 2000/14/EC	
Item 9 Compressors		EN ISO 3744:1995 as modified by 2000/14/EC	
Item 11 Concrete Motar Mixers		EN ISO 3744:1995 as modified by 2000/14/EC	
Item 25 Hedge Trimmers		EN ISO 3744:1995 as modified by 2000/14/EC	
Item 32 Lawnmowers		EN ISO 3744:1995 as modified by 2000/14/EC	
Item 33 Lawn Trimmers/Lawn Edge Trimmers		EN ISO 3744:1995 as modified by 2000/14/EC	
Item 34 Leaf blowers		EN ISO 3744:1995 as modified by 2000/14/EC	
Item 35 Leaf collectors		EN ISO 3744:1995 as modified by 2000/14/EC	
Item 40 Motor Hoes (< 3 kW)		EN ISO 3744:1995 as modified by 2000/14/EC	
Item 45 Power Generators		EN ISO 3744:1995 as modified by 2000/14/EC	
Item 49 Scarifiers		EN ISO 3744:1995 as modified by 2000/14/EC	
Item 50 Shredders/Chippers		EN ISO 3744:1995 as modified by 2000/14/EC	
Item 56 Water Pumps		EN ISO 3744:1995 as modified by 2000/14/EC	
Item 57 Welding Generators		EN ISO 3744:1995 as modified by 2000/14/EC	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 16: ENVIRONMENTAL TESTING Environmental Tests	<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 Max Temp: + 120 °C Max chamber size: 1.99 m x 0.99 m x 0.96 m	BS EN 60068-2-2:2007	IP
	Cold Min Temp: - 65 °C Max chamber size: 1 m x 0.99 m x 1.13 m 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	BS EN 60068-2-1:2007 IEC 60068-2-1:2007	IP
	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 IEC 60068-2-30:2005	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 Humidity range: 10 %rh to 93 %rh Max chamber size: 1 m x 0.99 m x 1.13 m	BS EN 60068-2-78:2013 Cab IEC 60068-2-78:2012	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 16: (cont'd) Environmental Tests (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 60068-2-27:2009 Ea IEC 60068-2-27:2008	IP
	Vibration, Sinusoidal (ambient temperature) Freq range: 2 to 5000Hz Peak thrust: 2.2 kN Max pk/pk displacement: ± 12.5 mm	BS EN 60068-2-6:2008 Fc IEC 60068-2-6:2007	IP
Military equipment – excluding vehicle tests	<u>Environmental Tests</u> Mechanical and climatic Humidity 10% to 98%	MIL-STD-810G w/Change 1 - 2014 Method 501.6 (High Temperature) Method 502.6 (Low Temperature) Method 507.6 (Humidity) Method 516.7 (Shock) Method 514.7 (Vibration) Method 512.6 (Immersion) Method 506.6 (Rain) procedure III Excluding: Procedures I and II	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 17: ENCLOSURES FOR ELECTRICAL EQUIPMENT	<u>Electrical Product Tests</u> Ingress Protection Tests		
Enclosures for Electrical Equipment	IP1X Protected against solid objects greater than 50 mm diameter	IEC 60529:1989 / AMD2:2013 /COR1:2019 IEC 60529:1989 + AMD1:1999 + AMD2:2013 CSV/COR1:2013 IEC 60529:1989/AMD2:2013	IP, MK
	IP2X Protected against solid objects greater than 12 mm diameter		IP, MK
	IP3X Protected against solid objects greater than 2.5 mm diameter		IP, MK
	IP4X Protected against solid objects greater than 1.0 mm diameter		IP, MK, CH
	IP5X Dust Protected Excluding: Objects greater than 570 x 570 x 570 mm (IP) 800 (w) x 800 (D) x 1400 (H) mm (CH)		IP, CH, MK
	IP6X Dust Protected Excluding: Objects greater than 570 x 570 x 570 mm (IP) 800 (w) x 800 (D) x 1400 (H) mm (CH)		IP, CH, MK

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 17: (cont'd)	Electrical Product Tests (cont'd)		
	Ingress Protection Tests (cont'd)		
Enclosures for Electrical Equipment (cont'd)	IPX1 Protected against dripping water	IEC 60529:1989 / AMD2:2013 / COR1:2019	IP, MK
	IPX2 Protected against dripping water when tilted up to 15°	IEC 60529:1989 + AMD1:1999 + AMD2:2013 CSV / COR1:2013	IP, MK
	IPX3 Protected against spraying water		IP, MK
	IPX4 Protected against splashing water		IP, MK, CH
	IPX5 Protected against water jets		IP, MK, CH
	IPX6 Protected against heavy seas		IP, CH
	IPX7 Protected against the effects of immersion Excluding: Objects greater than 1200 (h) x 850 (w) x 1000 (l) mm		IP, MK, CH
	IPX8 Protected against the effects of immersion Excluding: Objects greater than 400 (h) x 850 (w) x 1000 (l) mm		IP, CH, MK

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 18: FIRE / Intruder DETECTION & FIRE/Intruder ALARM SYSTEMS:	Performance Tests		
Control and Indicating Equipment for Fire safety	Performance & endurance	EN 54-2:1997/A1:2006 EN 54-2:1997/AC:1999 EN 54-2:1997 ISO 7240-2:2017 AS ISO 7240.2:2018	IP
Sounders	Performance & endurance	EN54-3:2014+A1:2019 EN 54-3:2014+A1:2019 EN 54-3:2001/A2:2006E N 54-3:2001/A1:2002 EN 54-3:2001 ISO 7240-3: 2020 AS ISO 7240.3: 2021	IP
Power supplies for CIE	Performance & endurance	EN 54-4:1997/A2:2006 EN 54-4:1997/A1:2002 EN 54-4:1997/AC:1999 EN 54-4:1997 ISO 7240-4: 2017 AS ISO 7240.4: 2018	IP
Heat Detectors	Performance & endurance	EN 54-5:20017/A1:2018 EN 54-5:2017 EN 54-5:2000/A1:2002 EN 54-5:2000 ISO 7240-5:2018-07 AS 7240.5:2018	IP
Smoke Detectors	Performance & endurance	EN 54-7:2018 EN 54-7:2000/A2:2006 EN 54-7:2000/A1:2002 EN 54-7:2000 ISO 7240-7:2023-07 AS 7240.7:2018	IP
Manual Call-points	Performance & endurance	EN 54-11:2001/A1:2005 EN 54-11:2001 ISO 7240-11: 2011 Excluding clause 5.20 AS ISO 7240.11: 2018 Excluding clause 5.20	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 18: (cont'd)	Performance Tests (cont'd)		
Systems assessment	Compatibility & Performance	EN 54-13:2005 EN 54-13:2017 + A1:2019 ISO 7240-13: 2020 AS ISO 7240.13: 2021	IP
CIE for Voice Alarm systems	Performance & endurance	EN 54-16:2008	IP
Isolators	Performance & endurance	EN54-17:2005+A1:2007 EN 54-17:2005 ISO 7240-17: 2020 AS 7240.17:2021	IP
I/P & O/P Devices	Performance & endurance	EN 54-18:2005 EN 54-18:2005/AC:2007 ISO 7240-18:2017 AS 7240.18 2017	IP
Aspirating Smoke Detectors	Performance & endurance	EN 54-20:2006 EN 54-20:2006/AC:2008 ISO 7240-20: 2010 AS ISO 7240.20: 2012	IP
Visual Alarm Devices	Performance & endurance	EN 54-23:2010 ISO 7240-23: 2013 AS ISO 7240.23: 2014	IP
Loudspeakers for VACIE	Performance & endurance	EN 54-24:2008 ISO 7240-24: 2016 AS ISO 7240.24: 2018	IP
Radio devices for Fire related products	Performance & endurance	EN 54-25:2008 ISO 7240-25: 2010 AS 7240.25: 2015	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 18: (cont'd)	Performance Tests (cont'd)		
Radio devices for Fire related products	Performance & endurance	EN 54-25:2008/AC:2012 EN 54-25:2008/AC:2010 EN 54-25:2008 4.2.6 Loss of communication 8.2.3 Test of alarm integrity 8.2.6 Test for mutual disturbance between systems of the same manufacturer 8.2.8 Test for the detection of a loss of communication on a link 8.3.4 Test for the low power condition fault signal	S
Duct Smoke Detectors	Performance & endurance	EN 54-27:2015	
Multi-sensor fire detectors. Point detectors using a combination of smoke and heat sensors	Performance & endurance	EN 54-29:2015 ISO 7240.-15: 2014 AS ISO 7240.15: 2018	IP
Domestic Heat alarms	Performance & endurance	BS 5446-2:2003	IP
Domestic Smoke alarms	Performance & endurance	EN 14604:2005/AC:2008 EN 14604:2005	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 19: MATERIALS	Chemical Tests		
Materials (non-metallic) for use with drinking water	Analysis for the purpose of enforcement of the Water Supply (Water Fittings) Regulations 1999 (SI 1999/1148)		MK
	Chemical tests	BS 6920:Part 1:2014	MK
	Samples for testing	BS 6920:Part 2:Section 2.1:2014	MK
	Odour and flavour	BS 6920:Part 2:Section 2.2: Subsection 2.2.1:2000 + A3:2014	MK
	Odour and flavour on composite hoses and pipes	BS 6920:Part 2:Section 2.2: Subsection 2.2.2:2000 + A1:2014	MK
		BS 6920:Part 2:Section 2.2: Subsection 2.2.3:2000 + A2:2014	MK
	Appearance of water	BS 6920:Part 2:Section 2.3:2000 + A1:2014	MK
	Extraction of metals	BS 6920:Part 2:Section 2.6:2000 + A2:2014	MK
	High temperature tests	BS 6920:Part 3:2000	MK
	Microbiological Tests		
Materials (non-metallic) for use with drinking water	Analysis for the purpose of enforcement of the Water Supply (Water Fittings) Regulations 1999 (SI 1999/1148)		MK
	Growth of aquatic microorganisms	BS 6920:Part 2:Section 2.4:2000 + A1:2014	MK
	Extraction of substances that may be of concern to public health	BS 6920:Part 2:Section 2.5:2000 + A2:2014	MK

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 19 (cont'd)	Chemical Tests (cont'd)		
Influence of materials on water intended for human consumption - influence due to migration non-metallic and non-cementitious, factory made & site-applied materials	Chemical tests	BS EN 12873-1:2014 BS EN 12873-2:2005	MK
Membranes	Chemical tests	BS EN 12873-4:2006	MK

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 20 UNINTENTIONAL RADIATORS FCC Part 15, Subpart B	UK/USA MRA <u>FCC Accredited Testing Laboratory Scope</u> Radiated tests 9 kHz to 40 GHz Conducted tests 9 kHz to 40 GHz	 ANSI C63.4-2014 ANSI C63.4a-2017	 IP
INDUSTRIAL, SCIENTIFIC, AND MEDICAL EQUIPMENT Consumer ISM equipment FCC Part 18	Radiated tests 9 kHz to 40 GHz Conducted tests 9 kHz to 40 GHz	FCC MP-5 (February 1986)	IP
INTENTIONAL RADIATORS FCC Part 15, Subpart C	Radiated tests 9 kHz to 40 GHz Conducted tests 9 kHz to 40 GHz Radio tests as per standard. Includes, but not limited to: Field strength, Frequency stability, Occupied / emission bandwidth, Band-edge emissions, Out-of-band-emissions, Spurious emissions, Duty cycle / periodic operation, Power spectral density	ANSI C63.10-2020	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 20 (cont'd)	UK/USA MRA (cont'd) FCC Accredited Testing Laboratory Scope (cont'd)		
U-NII without DFS Intentional Radiators (FCC Part 15, Subpart E) • Unlicensed National Information Infrastructure Devices (U-NII without DFS)	Radiated tests 9 kHz to 40 GHz Conducted tests 9 kHz to 40 GHz Radio tests as per standard	ANSI C63.10-2020	IP
U-NII with DFS Intentional Radiators (FCC Part 15, Subpart E) • Unlicensed National Information Infrastructure (U-NII) Devices with Dynamic Frequency Selection (DFS)	Radiated tests 9 kHz to 40 GHz Conducted tests 9 kHz to 40 GHz Radio tests as per standard	ANSI C63.10-2020 FCC KDB 905462 D02 v02	IP

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 21	UK/Canada MRA ISED Accredited Testing Laboratory Scope		
Radio apparatus (excludes licensed radio apparatus)	Conducted and radiated tests 9 kHz – 40 GHz	RSS-Gen, issue 5, Feb 2021 ANSI C63.4a-2017 ANSI C63.10-2020	IP
License exempt radio apparatus	Conducted and radiated tests 9 kHz – 40 GHz	RSS-210, issue 11, Jun 2024 excludes FRS/GMRS (Annex E)	IP
Digital transmissions systems, Frequency hopping systems and license exempt local area network devices	Conducted and radiated tests 9 kHz – 40 GHz	RSS-247, issue 3, Aug 2023	IP
END			