


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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


 Accredited to ISO/IEC 17025:2017	Intertek Testing & Certification Ltd Issue No: 138 Issue date: 21 May 2025	
	Academy Place 1-9 Brook Street Brentwood Essex CM14 5NQ	Contact: Mr Papy Mbuyi 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 Papy Mbuyi Mobile + 44 7485 399520 Email: papy.mbuyi@intertek.com	Schedule Sections: 1, 2, 3, 7, 9, 11,13, 16, 17	CR
Address Unit D Imperial Park Randalls Way Leatherhead Surrey KT22 7TS	Local contact Papy Mbuyi Mobile + 44 7485 399520 Email: papy.mbuyi@intertek.com	EMC, Fire Detection & Fire Alarm Systems Schedule Sections 4,12,18	IP
Address Research & Performance Testing Centre Davy Avenue Knowhill Milton Keynes MK5 8NL	Local contact Papy Mbuyi Mobile + 44 7485 399520 Email: papy.mbuyi@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

 <p>0029 Accredited to ISO/IEC 17025:2017</p>	<p align="center">Schedule of Accreditation issued by United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK</p>
	<p align="center">Intertek Testing & Certification Ltd Issue No: 138 Issue date: 21 May 2025</p>
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Site activities performed away from the locations listed above:

Location details	Activity	Location code
Any	<p>Medical Electrical Equipment, Section 11 of Schedule</p> <p>Electrical equipment for measurement control and laboratory use, Section 3 of Schedule</p>	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
Index			
Section	Product		
Section 1	Controls		
Section 2	Electrical Apparatus, Systems, Components, Accessories and Enclosures for Use in Potentially Explosive Atmospheres		
Section 3	Electrical Equipment For Measurement, Control And Laboratory Use		
Section 4	EMC Testing		
Section 5	(Not currently in use)		
Section 6	(Not currently in use)		
Section 7	Household and Similar Electrical Appliances		
Section 8	(Not currently in use)		
Section 9	Information Technology Equipment		
Section 10	(Not currently in use)		
Section 11	Medical Electrical Equipment		
Section 12	Radio Testing		
Section 13	Transformers		
Section 14	Household and Similar Electrical Appliances - Performance Testing (Milton Keynes)		
Section 15	Acoustics Testing		



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Index			
Section	Product		
Section 16	Environmental testing		
Section 17	Enclosures for Electrical Equipment (IP Testing)		
Section 18	Fire Detection & Fire Alarm Systems:		
Section 19	Materials		
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.			



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SECTION 1: CONTROLS Automatic controls for household and similar use General requirements Automatic Electrical Controls	<u>Electrical Products Tests</u> Electrical safety 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 BS EN 60730-1:2016 + A2:2022 EN 60730-1 :2016 EN 60730-1 :2016 + A1 :2019	MK
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



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SECTION 1: (cont'd) Water valves	<u>Electrical Products Tests</u> (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 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
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



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<p>SECTION 2: ELECTRICAL APPARATUS, SYSTEMS, COMPONENTS, ACCESSORIES AND ENCLOSURES FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES</p> <p>Electrical apparatus for explosive gas atmospheres</p> <p>General requirements</p>	<p><u>Electrical Products Tests</u></p> <p>Construction, safety and marking</p>	<p>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</p>	CR, CH
Tests for Apparatus in Flameproof Enclosures (Exd)	Construction, safety and marking	<p>IEC 60079-1:2014 IEC 60079-1:2007 Excluding: Ageing test for elastomeric sealing rings for cable entries</p>	CR, CH
Tests for Pressurised and Purged Apparatus (Exp)	Construction, safety and marking	<p>IEC 60079-2:2014 IEC 60079-2:2007</p>	CR, CH
Tests for Powder Filling Apparatus (Exq)	Construction, safety and marking	<p>IEC 60079-5: 2015 IEC 60079-5:2007</p>	CR
Tests for Liquid Immersion Apparatus (Ex o)	Construction, safety and marking	<p>IEC 60079-6: 2015 IEC 60079-6:2007</p>	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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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	CR

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	CR, S
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		
Laboratory equipment for the heating of materials	Electrical safety	EN 61010-2-010:2003 IEC 61010-2-010:2003	
Hand held current clamps for electrical measurement and test	Electrical safety	BS EN 61010-2-32:2002 IEC 61010-2-32:2002	
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	
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	
In-vitro diagnostic (IVD) medical equipment	Electrical safety	EN 61010-2-101: 2015 IEC 61010-2-101: 2015	



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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
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

[illegible]

EMC Testing

4.1 Commercial EMC Testing

4.1.1 Conducted Emissions

Conducted emissions:

9 kHz to 30 MHz

Continuous emissions

Discontinuous emissions

Standard specifications/ Equipment/Techniques used

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

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



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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)	4.1.2 Radiated Emissions (cont'd)		IP
	Radiated Emissions Electric field: 30 MHz to 3 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	
	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	
	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



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SECTION 4: (cont'd) As listed on Pages 15 and 16	<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	
	4.1.10 Mains Harmonics	EN 61000-3-2:2014 EN 61000-3-2:2019	IP
	4.1.11 Voltage Flicker	EN 61000-3-3:2013 EN 61000-3-3:2013+A1:2019	IP



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SECTION 4: (cont'd) As listed on Pages 15 and 16	<u>EMC Testing</u> (cont'd) 4.2 <u>Commercial EMC Testing</u> <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	<div>EN 50121-4:2006</div> <div>EN 50121-4:2000</div> <div>EN 50121-4:2015</div> <div>EN 50121-4:2016+A1:2019</div> <div>EN 50130-4:1996, Amds A1 & A2</div> <div>EN 50130-4:2011</div> <div>EN 50130-4:2011+A1</div> <div>EN 50270:2006</div> <div>EN 50293:2001</div> <div>EN 55014-2:1997, Amd A1</div> <div>EN 55014-2:1998 +A1+A2</div> <div>EN 55014-2:2015</div> <div>EN 55011:2016</div> <div>EN 55011:2016 + A1:2017</div> <div>EN IEC 55014-2:2021</div> <div>EN 55024:1998, Amds A1 & A2 Excluding: Annex A, TTE Equipment</div> <div>EN 55024:2010</div> <div>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</div> <div>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)</div> <div>EN 55103-1:1996</div> <div>EN 55103-2:1996</div> <div>EN 55104:1995</div> <div>EN 60601-1-2:2015</div> <div>EN 60601-1-2:2007</div> <div>EN 60601-1-2:1993</div> <div>EN 60601-1-2:2015 + A1:2021</div>	IP



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SECTION 4: (cont'd) As listed on Pages 15 and 16	<u>EMC Testing</u> (cont'd) 4.2 <u>Commercial 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	<p>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</p> <p>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</p> <p>ETSI EN 301 489-1V2.2.2 ETSI EN 301 489-1 V1.3.1 ETSI EN 301 489-1 V1.8.1 EN 301 489-1 V1.9.2: 2011</p> <p>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</p> <p>ETSI EN 301 489-5 V1.2.1</p> <p>ETS EN 301 489-7 V1.1.1</p>	IP
Short Range Devices			
PMR			
900/1800 GSM			



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SECTION 4: (cont'd) As listed on Pages 15 and 16 Wireless Microphones VSAT	<u>EMC Testing</u> (cont'd) 4.2 <u>Commercial 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 ETSI EN 301 489-12, V1.1.1	 IP 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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SECTION 4: (cont'd) As listed on Page 15 to 20	<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
	4.5.3 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




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SECTION 4: (cont'd) As listed on Page 15 to 20	<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
	4.5.6 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
	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

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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 15 to 20	<u>EMC Testing</u> (cont'd) 4.5 Facilities (cont'd)		
	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

SECTION 5: Not Currently in use
SECTION 6: 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
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 60335-1:2010EN 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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 7: (cont'd) Washing machines	<u>Electrical Products Tests</u> (cont'd) 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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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 - 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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 7: (cont'd) Room heaters	<u>Electrical Products Tests</u> (cont'd) Electrical Safety	EN 60335-2-30:2009+A11 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 – withdrawn +A1 :2006, A2 :2011 IEC 60335-2-35:2002+A1:2006, A2:2009 EN 60335-2-35:2016+A1:2019	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



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SECTION 7: (cont'd) Fixed immersion heaters	<u>Electrical Products Tests</u> (cont'd) Electrical safety	EN 60335-2-73:2003 + A1:2005, A2:2009 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 table top 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




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<p>SECTION 9: INFORMATION TECHNOLOGY EQUIPMENT</p> <p>Audio/video, information and communication technology equipment – Part 1: Safety requirements</p>	<p><u>Electrical Products Tests</u></p> <p>Electrical safety</p>	<p>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)</p> <p>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)</p>	<p align="center">MK</p>

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Maaterials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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



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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
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
Programmable Electrical Medical Systems	Electrical safety	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



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SECTION 11: (cont'd) Medical devices - Application of usability engineering to medical devices	<u>Electrical Products Tests</u> (cont'd) Electrical safety Usability	EN 62366:2008 + A1:2014 IEC 62366:2007 +A1:2014	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	CR, S
Medical electrical equipment Cardiac defibrillators.	Electrical safety	IEC 60601-2-4:2010 EN 60601-2-4:2011	CR, 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	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
Electrocardiographs	Electrical safety	IEC 60601-2-25:2011	CR, S
Electroencephalographs	Electrical safety	IEC 60601-2-26:2012 BS EN 60601-2-26:2003 IEC 60601-2-26:2002	CR, S



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SECTION 11: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Electrocardiograph Monitoring Equipment	Electrical safety	IEC 60601-2-27:2011	CR
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 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	CR, 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	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



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SECTION 11: (cont'd) Medical electrical equipment. Multifunction patient monitoring equipment.	<u>Electrical Products Tests</u> (cont'd) Electrical safety	 IEC 60601-2-49:2011	 CR, 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	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	<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 RED Directive testing for wideband transmission systems operating in the 2.4 GHz band. Measurement Frequency range 1 GHz to 12.75 GHz	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 EN 300 328 V2.1.1 EN 300 328 V 2.2.2 2019-07	IP IP (CR for OATS)
Radio Transmitting and Receiving Equipment	<u>Radio testing</u> 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



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SECTION 12: RADIO TESTING (cont'd) 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	<u>Human exposure to electromagnetic fields</u> 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



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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>		
Facilities:	<p>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</p> <p>Screened Chamber 1: 4.9 m x 3.8 m x 3 m Access Door: 0.9 m x 2.1 m high</p> <p>Screened Chamber 2: 4.9 m x 3.8 m x 3 m Access Door: 0.9 m x 2.1 m high</p> <p>Screened Chamber 3: 4.9 m x 3.8 m x 3 m Access Door: 0.9 m x 2.1 m high</p> <p>Power supplies: 230V ac, 50 Hz 28V dc</p>		<p>IP</p> <p>IP</p> <p>IP</p> <p>IP</p> <p>IP</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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	, 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.			



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SECTION 14: Household and Similar Electrical Appliances - Performance Testing (Milton Keynes) Electrical and electronic household and office equipment - Measurement of networked standby power consumption of edge equipment	<u>Performance Tests</u> 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



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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
Item 56 Water Pumps		EN ISO 3744:1995 as modified by 2000/14/EC	MK
Item 57 Welding Generators		EN ISO 3744:1995 as modified by 2000/14/EC	MK



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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	CR 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	CR 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	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 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	CR IP



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SECTION 16: (cont'd) Environmental Tests (Continued)	<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	CR
	Vibration, Sinusoidal (ambient temperature) Freq range: 2 to 5000Hz Peak thrust: 2.2 kN Max pk/pk displacement: ± 12.5 mm	BS EN 60068-2-6:2008 Fc IEC 60068-2-6:2007	CR IP
Batteries	Mechanical, climatic & electrical	IEC 62133-2:2017+A1:2021:2021 UN Manual of Test and Criteria Document No. ST/SG/AC.10/11 Rev 7:2019+Amd 1:2021 Para 38.3 Lithium Batteries Tests: T1 to T8 38.3.4.1: T1 Altitude 38.3.4.2: T2 Thermal test 38.3.4.3: T3 Vibration 38.3.4.4: T4 Shock 38.3.4.5: T5 External short circuit 38.3.4.6: T6 Impact / crush 38.3.4.7: T7 Overcharge 38.3.4.8: T8 Forced discharge	CR CR
Battery for transportation tests	Mechanical, climatic & electrical	IEC 62281:2019+A2: 2023	CR



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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) Military equipment	<u>Environmental Tests</u> (non-explosive items) (cont'd) Mechanical and climatic	MIL-STD-810G Method 502.6 (High Temperature) MIL-STD-810G Method 501.6 (Low Temperature) MIL-STD-810G Method 507.6 (Humidity) MIL-STD-810G Method 516.7 (Shock) MIL-STD-810G Method 514.7 (Sine Vibration) MIL-STD-810G Method 512.6 (Immersion) MIL-STD-810G Method 506.6 (Rain)	CR



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SECTION 17: ENCLOSURES FOR ELECTRICAL EQUIPMENT Enclosures for Electrical Equipment	<u>Electrical Product Tests</u>		
	Ingress Protection Tests		
	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	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 17: (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	IEC 60529:1989/AMD2:2013/COR1:2019 IEC 60529:1989+AMD1:1999+AMD2:2013 CSV/COR1:2013	CR, MK, CH
	IPX6 Protected against heavy seas		CR, 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 18: FIRE / Intruder DETECTION & FIRE/Intruder ALARM SYSTEMS:	<u>Performance Tests</u>		
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	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	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	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	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	IP
Manual Call-points	Performance & endurance	EN 54-11:2001/A1:2005 EN 54-11:2001	IP
Systems assessment	Compatibility & Performance	EN 54-13:2005 EN 54-13:2017 + A1:2019	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	IP
I/P & O/P Devices	Performance & endurance	EN 54-18:2005 EN 54-18:2005/AC:2007I	IP
Smoke Alarms	Performance & endurance	EN 54-20:2006 EN 54-20:2006/AC:2008	IP
Visual Alarm Devices	Performance & endurance	EN 54-23:2010	IP



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SECTION 18: (cont'd)	<u>Performance Tests</u> (cont'd)		
Loudspeakers for VACIE	Performance & endurance	EN 54-24:2008	IP
Radio devices for Fire related products	Performance & endurance	EN 54-25:2008	IP
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	IP
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/AC:2008 EN 14604:2005	IP
Domestic Heat alarms	Performance & endurance	BS 5446-2:2003	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
<p>Note: For the EN 54 series of standards: -</p> <p>General Performance and Environmental testing is performed at Cleeve Road - CR</p> <p>EMC Testing is performed at Imperial Park - IP</p> <p>Sound Level testing is performed at Imperial Park Unit C</p>			



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SECTION 19: MATERIALS Materials (non-metallic) for use with drinking water	<u>Chemical Tests</u>		
	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
	<u>Microbiological Tests</u>		
	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



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SECTION 19 (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	<u>Chemical Tests</u> Chemical tests	BS EN 12873-1:2014 BS EN 12873-2:2005	MK
Membranes	Chemical tests	BS EN 12873-4:2006	MK
END			