Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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8613

Accredited to ISO/IEC 17025:2017

Ex Veritas Limited

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Flexible Scope

The laboratory is accredited to ISO/IEC17025:2017 for testing activities in accordance with the standards included on this 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 testing / measurement.

(2) The method or standard does not require testing / measurements to be made outside the parametric boundaries defined within the standard specifications already accredited and detailed within this Schedule of Accreditation.

Information about flexible scopes of accreditation is available on the UKAS website.

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used*
SECTION 1 **ELECTRICAL PRODUCT TESTS**		
Electrical Apparatus, Systems, Components, Accessories and Enclosures for use in potentially Explosive Atmospheres		
Electrical apparatus for explosive gas atmospheres General requirements	Construction, safety and marking Thermal Stability min temp - 50 °C max temp 450 °C Max enclosure size for Thermal Stability test 100 x 900 x 900 mm	IEC 60079-0:2017 EN 60079-0:2018 IEC 60079-0:2011 EN 60079-0:2012/A11:2013 IEC 60079-0:2007 (withdrawn) Excluding: Resistance to light
Tests for Apparatus in Flameproof Enclosures (Exd)	Construction, safety and marking Clause 15.1.2/15.1.3 min temp 50 °C Clause 15.2 max temp 450 °C	IEC 60079-1:2014 (Ed 7) IEC 60079-:2007 (withdrawn)
Tests for Pressurised and Purged Apparatus (Exp)	Construction, safety and marking	IEC 60079-2:2014 (Ed 6) IEC 60079-2:2007 (withdrawn)
Tests for Sand Filled Apparatus (Exq)	Construction, safety and marking	IEC 60079-5:2015 IEC 60079-5:2007 (withdrawn)
Tests for Oil Immersed Apparatus (Exo)	Construction, safety and marking	IEC 60079-6:2015 IEC 60079-6:2007 (withdrawn)
Tests for Increased Safety Apparatus (Exe)	Construction, safety and marking	IEC 60079-7:2015 IEC 60079-7:2006 Excluding: Thermal performance testing of electrical machines
Tests for Intrinsically Safe Apparatus, Associated Apparatus and Systems (Exi)	Construction, safety and marking	IEC 60079-11:2011
Tests for Electrical Apparatus for Explosive Atmospheres. Construction and use of of rooms or buildings protected by pressurization	Construction, safety and marking	IEC 60079-13:2010 IEC 60079-13:2017

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SECTION 1 **ELECTRICAL PRODUCT TESTS** (cont'd)		
Tests for Electrical Apparatus for Explosive Atmospheres with Type of Protection n (Exn)	Construction, safety and marking	IEC 60079-15:2010 IEC 60079-15:2019
Tests for Encapsulated Apparatus (Exm)	Construction, safety and marking	IEC 60079-18:2015 IEC 60079-18:2009 (withdrawn)
Intrinsically safe electrical systems	Construction, safety and marking	IEC 60079-25:2010
Special requirements for construction, Test and Marking of Electrical Apparatus of Equipment Group II, Category 1G	Construction, safety and marking	IEC 60079-26:2014 Excluding ;- Clause 4.1.3.2b), vibration stress test.
Group I, Category M1 equipment intended to remain functional in atmospheres endangered by firedamp and/or coal dust	Construction, safety and marking	EN 50303:2000
Electrical apparatus for explosive gas atmospheres. Fieldbus intrinsically safe concept (FISCO) and fieldbus non-incendive concept (FNICO)	Construction, safety and marking	IEC 60079-27:2008
Protection of equipment and transmission systems using optical radiation	Construction, safety and marking	IEC 60079-28:2015 IEC 60079-28:2006 Excluding;- Clause 6, ignition test
Equipment dust ignition protection by enclosure "t"	Construction, safety and marking	IEC 60079-31:2014 IEC 60079-31:2008 (withdrawn)
Electrostatics hazards — Tests	Construction, safety and marking	EN 60079-32-2:2015 IEC 60079-32-2:2015
Equipment protection by special protection "s"	Construction, safety and marking	PD CLC/TR 60079-33:2015
Electrical apparatus for use in the presence of combustible dust: Type of protection 'pD'	Construction, safety and marking	IEC 61241-4:2001 (withdrawn)

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SECTION 1 **ELECTRICAL PRODUCT TESTS** (cont'd)		
Safety requirements for electrical equipment for measurement, control, and laboratory use. General requirements	Electrical Safety Testing	EN 61010-1:2010 Excluding Clauses: 4.4.2.7 Mains transformers short circuit/overload 14.2 Motors 14.6 Mains transformers tested outside equipment
Audio/video, information and communication technology equipment. Safety requirements	Electrical Safety Testing	EN 62368-1:2018 Excluding Clauses: G.5.2 Endurance test (Wound components) G.5.3.3.3 Alternative test method (Transformer overload tests) G.5.3.4.5 Thermal cycling test and compliance (Transformers using fully insulated winding wire FIW) G.5.3.4.6 Partial discharge test (Transformer using fully insulated winding wire FIW) G.5.4.2 Motor overload test conditions (Motors) G.5.4.3 Running overload test and compliance criteria (Motors) G.5.4.4 Locked-rotor overload G.5.4.5 Running overload for DC motors G.5.4.6. locked-rotor overload for DC motors U.2 Test method and compliance criteria for non-intrinsically protected CRTs

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SECTION 2 **NON-ELECTRICAL PRODUCT TESTS**		
Non-Electrical Apparatus, Systems, Components, Accessories and Enclosures for use in Potentially Explosive Atmospheres	Tests similar to those indicated above for electrical equipment	
Basic Methods and Requirements	Construction, safety and marking	ISO/IEC 80079-36:2016 EN 13463-1:2009
Protection by flow restricting enclosure "fr"	Construction, safety and marking	EN 13463-2:2004
Protection by flameproof enclosure 'd'	Construction, safety and marking	EN 13463-3:2005
Protection by control of ignition source “b”	Construction, safety and marking	EN 13463-6:2005
Protection by liquid immersion “k”	Construction, safety and marking	EN 13463-8:2003
Non-electrical equipment for use in explosive atmospheres - Non-electrical type of protection constructional safety 'c', control of ignition sources 'b', liquid immersion 'k'	Construction, safety and marking	ISO/IEC 80079-37:2016

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SECTION 3 **INGRESS PROTECTION TESTS**		
Enclosures for Electrical Equipment	IP1X Protected against solid objects greater than 50 mm diameter IP2X Protected against solid objects greater than 12 mm diameter IP3X Protected against solid objects greater than 2.5 mm diameter IP4X Protected against solid objects greater than 1.0 mm diameter IP5X Dust Protected Excluding: Objects greater than 2000 x 1000 x 1000 mm Max weight: 140 kg IP6X Dust Tight Excluding: Objects greater than 2000 x 1000 x 1000 mm Max weight: 140 kg IPX3 Protected against spraying water IPX4 Protected against splashing water IPX5 Protected against water jets IPX6 Protected against heavy seas IPX7 Protected against the effects of immersion Excluding: X7 Objects greater than 1000 x 650 x 850 mm IPX8 Protected against the effects of immersion	IEC 60529:2013, Amd 2 IEC 60529:2001, Amd 1
END		

*Where IEC or EN standards have exact equivalents in BS, EN or BS EN Standards, these are also included in the accreditation