Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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2593

Accredited to ISO/IEC 17025:2017

SGS United Kingdom Limited

Issue No: 028 **Issue date:** 16 December 2025

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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Electrical Apparatus, Systems, Components, Accessories and Enclosures for use in potentially Explosive Atmospheres	<u>ELECTRICAL PRODUCT TESTS</u>	
Electrical apparatus for explosive gas atmospheres and explosive dust atmospheres: General requirements	Construction, safety and marking Thermal Stability min temp - 75 °C max temp 600 °C Max enclosure size for Thermal Stability test 900 x 900 x 900 mm	IEC 60079-0:2017 Ed 7 UL 60079-0 Ed 7 (2019) C C22.2 No 60079-0:2019 Excluding Group I IEC 60079-0:2011 (withdrawn) ANSI/ISA/UL 60079-0:13 (withdrawn) C22.2 No 60079-0:11 (withdrawn) Excluding Group I IEC 60079-0:2007 (withdrawn) IEC 60079-0:2004 (withdrawn) Excluding: Resistance to light (all versions)
Tests for Apparatus in Flameproof Enclosures (Exd)	Construction, safety and marking Clause 15.1.2/15.1.3 min temp - 75 °C Clause 15.2 max temp 600 °C	IEC 60079-1:2014 ANSI/ISA/UL 60079-1:09 C22.2 No 60079-1:11 Excluding Group I IEC 60079-1:2007 (withdrawn) IEC 60079-1:2001 (withdrawn) Excluding: Flame transmission at other than normal atmospheric pressure (all versions) Pressure determination with the short-circuit test of circuit breakers rated 10 000 A breaking capacity or higher (ANSI/ISA/UL version only)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Tests for Pressurised and Purged Apparatus (Exp)	Construction, safety and marking	IEC 60079-2:2014 ANSI/ISA/UL 60079-2:10 C22.2 No 60079-2:12 Excluding Group I IEC 60079-2:2007 (withdrawn) IEC 60079-2:2001 (withdrawn)
Tests for Sand Filled Apparatus (Exq)	Construction, safety and marking	IEC 60079-5:2015 ANSI/ISA/UL 60079-5:09 C22.2 No 60079-5:11 Excluding Group I IEC 60079-5:2007 (withdrawn) IEC 60079-5:1997 (withdrawn)
Tests for Liquid Immersed Apparatus (Exo)	Construction, safety and marking	IEC 60079-6;2015 ANSI/ISA/UL 60079-6: 07 C22.2 No 60079-6:11 Excluding Group I IEC 60079-6:2007 (withdrawn) IEC 60079-6:1995 (withdrawn)
Tests for Increased Safety Apparatus (Exe)	Construction, safety and marking	IEC 60079-7:2015 ANSI/ISA/UL 60079-7:08 C22.2 No 60079-7:12 Excluding Group I IEC 60079-7:2006 (withdrawn) IEC 60079-7:2001, corrig (withdrawn) Excluding: Thermal performance testing of electrical machines
Tests for Intrinsically Safe Apparatus, Associated Apparatus and Systems (Exi)	Construction, safety and marking	IEC 60079-11: Ed 7:2023 IEC 60079-11:2011 ANSI/ISA/UL 60079-11:14 C22.2 No 60079-11:14 Excluding Group I IEC 60079-11:2006 (withdrawn) IEC 60079-11:1999 (withdrawn) IEC 60079-11:1991 (withdrawn) Appendix 3 to Annex B of Council Directive 82/130/EEC

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Tests for Equipment protection by pressurized room 'p'	Construction, safety and marking	IEC 60079-13:2017 IEC 60079-13:2010
Tests for Electrical Apparatus for Explosive Atmospheres with Type of Protection n (Exn)	Construction, safety and marking	IEC 60079-15:2017 Ed 5 UL 60079-15 Ed 5 (2020) CAN/CSA C22.2 No 60079-15:2018 IEC 60079-15:2010 (withdrawn) ANSI/ISA/UL 60079-15:13 (withd'n) C22.2 No 60079-15:12 (withdrawn) IEC 60079-15:2005 (withdrawn) IEC 60079-15:2001 (withdrawn) Excluding: Thermal performance testing of electrical machines
Tests for Encapsulated Apparatus (Exm)	Construction, safety and marking	IEC 60079-18:2014 ANSI/ISA/UL 60079-18:11 C22.2 No 60079-18:11 Excluding Group I IEC 60079-18:2009 (withdrawn) IEC 60079-18:2004 (withdrawn) IEC 60079-18:1992 (withdrawn)
Special requirements for construction, Test and Marking of Electrical Apparatus of Equipment Group II, Category 1G	Construction, safety and marking	IEC 60079-26:2014 IEC 60079-26:2006 (withdrawn) IEC 60079-26:2004 (withdrawn)
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 IEC 60079-27:2005 (withdrawn)
Protection of equipment and transmission systems using optical radiation	Construction, safety and marking	IEC 60079-28:2015 IEC 60079-28:2006 (withdrawn) Excluding;- Clause 6, ignition test

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Electrical Trace Heating Tapes	Tests to demonstrate compliance with constructional requirements and prove thermal performance	IEC/IEEE 60079-30-1: 2015 Edition 1 IEC 60079-30-1:2007 IEC 62086-1:2001 (withdrawn) Excluding: Verification of rated output (Method b)
Equipment dust ignition protection by enclosure "t"	Construction, safety and marking	IEC 60079-31: Ed 3:2022 IEC 60079-31:2013 ANSI/ISA/UL 60079-31:11 C22.2 No 60079-31:11 Excluding Group I IEC 60079-31:2008 (withdrawn)
Tests for Electrical Apparatus with Protection by Enclosure for use in the presence of Combustible Dusts General requirements	Construction, safety and marking	IEC 61241-0:2004 (withdrawn)
Tests for Electrical Apparatus with Protection by Enclosure for use in the presence of Combustible Dusts Protection by enclosure “tD”	Construction, safety and marking	IEC 61241-1:2004 (withdrawn)
Construction and Testing	Construction, safety and marking	IEC 61241-1-1:1999 (withdrawn)
Electrical apparatus for use in the presence of combustible dust: Type of protection 'pD'	Construction, safety and marking	IEC 61241-4:2001 (withdrawn)
Protection by intrinsic safety “iD”	Construction, safety and marking	IEC 61241-11:2005 (withdrawn)
Protection by encapsulation “mD”	Construction, safety and marking	IEC 61241-18:2004 (withdrawn)
Tests for apparatus having special protection (Ex s)	Construction, safety and marking	SFA 3009:1985

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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 potentially explosive atmospheres. Group I. Intrinsically safe systems.	Construction, safety and marking	EN 50394:2004
Domestic combustible gas detectors	Ignition test	EN 50194:2000 For the following clause only Clause 5.3.15
Miners Cap Lamps	Safety Tests and Performance Tests	IEC 60079-35-1:2011 IEC 60079-35-2:2011
Non-incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations	Construction, safety and marking	ANSI-ISA 12.12.01:2015 excluding clauses 12.2 and 15.2
Standard no. CSA C22.2 No. 0.10 Title: General requirements – Canadian electrical code, Part II	Construction, safety and marking	CSA C22.2 No. 0.10 (R2015)
Enclosures for electrical equipment, non- environmental considerations	Construction, safety and marking	CSA C22.2 No. 94.1-15
Enclosures for use in class II Groups E, F & G hazardous locations	Construction, safety and marking	CSA C22.2 No. 25-1966
Explosion-proof Enclosures for use in class I hazardous locations	Construction, safety and marking	C22.2 No. 30-M1986

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Requirements for electrical resistance trace heating and heating device sets	Construction, safety and marking	CSA C22.2 No. 130-16
Electrical Equipment for use in hazardous locations General Requirements	Construction, safety and marking	FM3600: 2011 excluding clauses 4.2 and 4.3.1 a)
Nonincendive Electrical Equipment for use in Class I & II Division 2 and Class III Division 1 and 2	Construction, safety and marking	FM3611: 2004 excluding clause 12
Explosionproof Electrical Equipment General Requirements	Construction, safety and marking	FM3615: 2006
Dust Ignition Electrical Equipment General Requirements	Construction, safety and marking	FM3616: 2011
Purged and Pressurized Electrical Equipment for Hazardous Classified) Locations	Construction, safety and marking	FM3620: 2000
Standard for Purged and Pressurized Enclosures for Electrical Equipment	Construction, safety and marking	NFPA496: 2017
Electric Motors and Generators for Use in Hazardous (classified) locations	Construction, safety and marking	UL 674: 2013 excluding clauses 32, 33, 38, 41, 43, 45, 48
Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous (Classified) Locations	Construction, safety and marking	UL913: 2013 8th Edition

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Rotating electrical machines - General requirements	Construction, safety and marking	UL1004-1: 2016
Form wound and medium voltage rotating electrical machines	Construction, safety and marking	UL1004-9: 2016
Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations	Construction, safety and marking	UL1203: 2013
Household Electrical appliances	Electrical/mechanical safety & performance	EN 60335-1:2012+A15:2021 Excluding: Clause 22.32: Oxygen bomb Clause 24.1: Components Annex J, Coated printed circuit boards Annex R, Software
Pedestrian Controlled/operated lawnmowers	Electrical/mechanical safety & performance	EN 60335-2-77:2010
Measurement, control & laboratory equipment	Electrical safety	EN 61010-1:2010 EN 61010-1+A1:2019 Excluding: Clause 9.3.2b, Wire insulation flammability Clause 12.2.1, Ionizing radiation Clause 12.4, Microwave radiation Clause 12.5.2, Ultrasonic pressure Clause 12.6, Laser sources Clause 13.2.3, Implosion of cathode ray tubes Annex H, Qualification of conformal coatings Where EN Electrical Safety Standards have exact equivalents in IEC, or BS 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
Non-electrical equipment for use in potentially explosive atmospheres	<u>DIMENSIONAL TESTS</u>	
Mechanical Cable Glands Metallic Glands	Tests to demonstrate compliance with constructional requirements	BS 6121:Part 1:1989 (withdrawn) Excluding: Seal compression, hardness and ageing Clause 8.6.2 Clause 8.6.3 Clause 8.6.4
Cable glands for electrical installations	Tests to demonstrate compliance with constructional requirements	EN 62444: 2013
Polymeric Glands	Tests to demonstrate compliance with constructional requirements	BS 6121:Part 2:1989 (withdrawn) Excluding: Clause 8.5.2 Clause 8.5.3 Clause 8.7
Special Corrosion Resistant Glands	Tests to demonstrate compliance with constructional requirements	BS 6121:Part 3:1990 (withdrawn) Excluding: Clause 8.7.2 Clause 8.7.3 Clause 8.9 Clause 8.12
Metric Cable Glands	Tests to demonstrate compliance with constructional requirements	EN 50262:1999, Amd 1 Excluding: Clauses 9.1, 9.2, 9.3, 9.5 and 9.6 Clauses 10.3.1 and 10.3.2 Clauses 10.4.1 and 10.4.2 Clause 12.2

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Non-Electrical Apparatus, Systems, Components, Accessories and Enclosures for use in Potentially Explosive Atmospheres	NON-ELECTRICAL PRODUCT TESTS Tests similar to those indicated above for electrical equipment	Tests or adaptations thereof, of those given above, and in accordance with procedures BAS-GP018 and BAS-GP022
Non-electrical equipment for explosive atmospheres – Basic method and requirements	Construction, safety and marking	ISO 80079-36: 2016 Edition 1
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 Edition 1
Equipment and components in explosive atmospheres in underground mines	Construction, safety and marking	ISO/IEC 80079-38: 2016 Edition 1
Basic Methods and Requirements	Construction, safety and marking	EN 13463-1:2009 EN 13463-1:2001 (withdrawn)
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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	<u>INGRESS PROTECTION TESTS</u>	
Enclosures for Electrical Equipment	IP1X Protected against solid objects greater than 50 mm diameter	IEC 60529 + A1 + A2 2013 excluding IPX9 IEC 60529:2001, Amd 1 ANSI/IEC 60529-2004 CSA C22.2 No. 60529:16
	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	IEC 60529:2001, Amd 1
	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	

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Enclosures for Electrical Equipment (Cont.)	IPX7 Protected against the effects of temporary immersion Excluding: Objects greater than 1500 x 650 x 850 mm IPX8 Protected against the effects of continuous immersion Excluding: Objects greater than 1500 L x 650 W x 850 mm D up to 1 metre immersion Objects greater than 650mm L x 370mm W x 300mm D above 1 metre immersion Maximum Immersion Depth 100 metres	
All Types of Equipment	<u>ENVIRONMENTAL EXPOSURE</u> Thermal endurance by heat max temperature 95°C at 90 % RH max chamber size 1800 x 1000 x 1100 mm Dry heat test Max temperature 250°C Max chamber size 550 x 500 x 750 mm Thermal endurance by cold Minimum temperature -75°C max chamber size 1000 x 800 x 750 mm	 IEC 60079-0:2017 Ed 7 Paragraph 26.8 IEC 60079-0:2017 Ed 7 Paragraph 26.8 IEC 60079-0:2017 Ed 7 Paragraph 26.9

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
All Types of Equipment	<u>ENVIRONMENTAL EXPOSURE</u> Thermal shock Max unit temperature +180°C max chamber size 1800 x 1000 x 1100 mm, Water Jet 1mm diameter at 10±5°C Mechanical impact 1 kg mass Max drop height 2 metres	 IEC 60079-0:2017 Ed 7 Paragraph 26.5.2 IEC 60079-0:2017 Ed 7 Paragraph 26.4.2
All Types of Equipment Capable of Generating Heat whilst Operating	<u>THERMAL TESTING</u> Test to determine temperature rise when bare, or when surrounded by dust with a layer of up to 500mm	 IEC 60079-0:2017 Ed 7 Paragraph 26.5.1 IEC 60079-0:2017 Ed 7 Paragraph 26.5.1
Where IEC or EN standards have exact equivalents in BS, EN or BS EN Standards, these are also included in the accreditation		
END		