

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING</p> <p>4085</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>UK Grid Solutions Limited</p> <p>Issue No: 028 Issue date: 12 December 2025</p>	
	<p>UK Grid Solutions Grid Automation Laboratories St Leonards Building Redhill Business Park Stafford ST16 1WT</p>	<p>Contact: Mr A Millard Tel: +44 (0)1785 786683 E-Mail: allen.millard@ge.com Website: www.gegridsolutions.com</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Measuring Relays, Protection Devices and ancillary equipment	1 EMC Tests	
	1.1 Electrostatic Discharge (ESD) Contact discharge 8 kV Air discharge 15 kV	EN 61000-4-2:2009 EN 61000-4-2:2025 EN 60255-22-2:2008 IEC 60255-26: 2013 IEC 60255-26: 2023
	1.2 Fast Transient and Burst Up to 4 kV	EN61000-4-4: 2004 + A1:2010 EN 61000-4-4:2012 EN 60255-22-4:2008 IEC 60255-26: 2013 IEC 60255-26: 2023
	1.3 Surge immunity Up to 4 kV	EN 61000-4-5:2006 EN 61000-4-5:2014 +A1:2017 EN 60255-22-5:2011 IEC 60255-26: 2013 IEC 60255-26: 2023
	1.4 Surge withstand capability	ANSI C37.90.1:2002 ANSI C37.90.1:2012 IEC 60255-26: 2023
	1.5 Conducted immunity 150 kHz to 230 MHz	EN 61000-4-6:2014 EN 61000-4-6:2023 IEC 60255-26: 2013 IEC 60255-26: 2023
	1.6 Power Frequency Magnetic Field Up to 1000 A/m	EN 61000-4-8:1993+ A1:2001 EN 61000-4-8: 2010
	1.7 Pulsed Magnetic Field Up to 1000 A/m	EN 61000-4-9:1993 + A1:2001 EN 61000-4-9:2016
1.8 Damped Oscillatory Magnetic Field Up to 100 A/m	EN 61000-4-10:1993 + A1 2001 EN 61000-4-10:2017	



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Measuring Relays, Protection Devices and ancillary equipment (cont'd)	1 EMC Tests (cont'd)	
	1.9 Supply Voltage Variations, DC Interruptions, AC Ripple, AC Voltage Dips and Short Interruptions	EN 61000-4-11:2004 EN 61000-4-11:2004 +A1:2017 EN IEC 61000-4-11:2020 IEC 60255-11:2010 IEC 60255-26: 2013 IEC 60255-26: 2023
	1.10 Power Frequency Interference 50 Hz only	EN 61000-4-16:1998 + A1:2004 + A2:2011 IEC 61000-4-16:2015 EN 60255-22-7:2003 IEC 60255-26:2013 IEC 60255-26: 2023
	1.11 Damped Oscillatory Interference 100 kHz, 1 MHz, 3 MHz, 10 MHz and 30 MHz 2.5 kV, 1 kV	EN 61000-4-18:2007 + A1:2010 IEC 61000-4-18:2019
	1 MHz Burst Immunity 2.5 kV 1 kV	EN 60255-22-1:2008 IEC 60255-26: 2013 IEC 60255-26: 2023
	1.12 High Voltage withstand Impulse voltage 5 kV Dielectric withstand Up to 5 kV Insulation resistance Up to 1 kV	EN 60255-27:2005 corrigendum 2007 10.5.3.1 EN 60255-27:2014 IEC 60255-27 :2023 10.5.3.2 ANSI/IEEE C37.90:2005 10.5.3.3 EN 60255-5:2001, Clause 7 EN 60255-27:2014
	1.13 Conducted emissions 150 kHz to 30 MHz	EN 55022:2010 EN 55032:2015 + A1:2020 IEC 60255-26: 2013 IEC 60255-26: 2023



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<p>Substation automation products with IEC 61850 communication functions.</p>	<p>2.0 IEC 61850 Conformance Testing for both client and server</p>	<p>BS EN 61850-10:2013 BS EN 61850-10:2005 (withdrawn) Test/measurement methods and expected results are defined in the test procedures for different groups of test cases:</p> <p>Ed2 Amd1 Server: UCATestProceduresServer61850-8-1Ed2Amd1_Rev1p2 UCATestProceduresServer61850-8-1Ed2Amd1_Rev1p3</p> <p>ED2 Server: UCATestProceduresServer61850-8-1Ed2_Rev2p0p6 UCATestProceduresServer61850-8-1Ed2_Rev2p0p5 UCATestProceduresServer61850-8-1Ed2_Rev2p0p4 UCATestProceduresServer61850-8-1Ed2_Rev2p0p3 UCATestProceduresServer61850-8-1Ed2_Rev2p0p2 UCATestProceduresServer61850-8-1Ed2_Rev2p0p1 UCATestProceduresServer61850-8-1Ed2_Rev2p0_rev6 UCATestProceduresServer61850-8-1Ed2_Rev2p0_rev5 UCATestProceduresServer61850-8-1Ed2_Rev2p0_rev4 UCATestProceduresServer61850-8-1Ed2_Rev2p0_rev3 UCATestProceduresServer61850-8-1Ed2_Rev2p0_rev2 UCATestProceduresServer61850-8-1Ed2_Rev2p0 UCATestProceduresServer61850-8-1Ed2_Rev1p0 with TPCLforEd2server1p0(version1p2) UCATestProceduresServer61850-8-1Ed2_Rev1p0 with TPCLforEd2server1p0(version1p2p6)</p>



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Substation automation products with IEC 61850 communication functions. (cont'd)	2.0 IEC 61850 Conformance Testing for both client and server (cont'd)	BS EN 61850-10:2013 BS EN 61850-10:2005 (withdrawn) Test/measurement methods and expected results are defined in the test procedures for different groups of test cases: ED2 Client: UCATestProceduresClient61850-8-1_Ed2_Rev1p1 UCATestProceduresClient61850-8-1_Ed2_Rev1p2 ED1 Server: UCATestProceduresServer61850-8-1_Rev3p3a GOOSE Performance: UCATestProceduresGoosePerformanceEd1_Rev1p5 UCATestProceduresGoosePerformanceEd2_Rev2p5



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Measuring Relays, Protection Devices and ancillary equipment	<p>3.0 Environmental Tests</p> <p>3.1 Humidity High/Low Temperature and Humidity - Steady State and Cyclic Temperature range: -40°C to +85°C Humidity range: 40 %rh to 98 %rh Maximum chamber size: 970 mm x 970 mm x 1050 mm</p> <p>3.2 Temperature Tests A (Cold) and B (Dry Heat): Max temp: +85°C Min temp: -40°C Max chamber size: 970 mm x 970 mm x 1050 mm</p> <p>Test Nb: Change of temperature with specified rate of change Max temp: +85°C Min temp: -40°C Max rate 1°C/min Max chamber size: 970 mm x 970 mm x 1050 mm</p> <p>Real time digital simulator tests on protection relays</p> <p>Omicron functional testing</p>	<p>EN 60068-2-30:2005:Test Db EN 60068-2-78:2001Test: Cab (Withdrawn) EN 60068-2-78:2013 Test Cab</p> <p>EN 60068-2-1:2007:A Temperature EN 60068-2-2:2007:B</p> <p>EN 60068-2-14:1999:N(Withdrawn) IEC 60068-2-14:2009:N IEC 60068-2-14:2023: Test N</p> <p>In house procedure CERT 9104.8360</p> <p>In house procedure CERT 9104.8237</p>
<p>END</p>		