

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> TESTING</p> <p>4085</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>UK Grid Solutions Limited</h3> <p><b>Issue No:</b> 020    <b>Issue date:</b> 05 February 2021</p>	
	<p><b>UK Grid Solutions</b> <b>Grid Automation Laboratories</b> <b>St Leonards Building</b> <b>Redhill Business Park</b> <b>Stafford</b> <b>ST16 1WT</b></p>	<p><b>Contact: Mr A Millard</b> <b>Tel: +44 (0)1785 786683</b> <b>E-Mail: allen.millard@ge.com</b> <b>Website: www.gegridsolutions.com</b></p>
<p><b>Testing performed at the above address only</b></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 60255-22-2:2008 IEC 60255-26: 2013
	1.2 Fast Transient & 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
	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
	1.4 Surge withstand capability	ANSI C37.90.1:2002 ANSI C37.90.1:2012
	1.5 Conducted immunity 9 kHz to 80 MHz	EN 61000-4-6:2014 IEC 60255-26: 2013
	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
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 IEC 60255-11:2010 IEC 60255-26: 2013	



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Measuring Relays, Protection Devices and ancillary equipment (cont'd)	<p>1 EMC Tests (cont'd)</p> <p>1.10 Power Frequency Interference 50 &amp; 60 Hz only</p> <p>1.11 Damped Oscillatory Interference 100 kHz, 1 MHz, 3 MHz, 10 MHz &amp; 30 MHz 2.5 kV, 1 kV</p> <p>1 MHz Burst Immunity 2.5 kV 1 kV</p> <p>1.12 High Voltage withstand</p> <p>Impulse voltage 5 kV</p> <p>Dielectric withstand Up to 5 kV</p> <p>Insulation resistance Up to 1 kV</p> <p>1.13 Conducted emissions 150 kHz to 30 MHz</p>	<p>EN 61000-4-16:1998 + A1:2004 + A2:2011 EN 60255-22-7:2003 IEC 60255-26:2013</p> <p>EN 61000-4-18:2007 + A1:2010</p> <p>EN 60255-22-1:2008 IEC 60255-26: 2013</p> <p>EN 60255-27:2005 corrigendum 2007 10.5.3.1 EN 60255-27:2014</p> <p>10.5.3.2 ANSI/IEEE C37.90:2005 10.5.3.3</p> <p>EN 60255-5:2001, Clause 7 EN 60255-27:2014</p> <p>EN 55022:2010 IEC 60255-26: 2013</p>



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Measuring Relays, Protection Devices and ancillary equipment (cont'd)	<p>3.0 Environmental Tests</p> <p>3.1 Humidity High/Low Temperature &amp; Humidity - Steady State and Cyclic Temp range: -40°C to +85°C Humidity range: 40-98% RH Max chamber size: 970 mm x 970 mm x 1050 mm</p> <p>3.2 Temperature Tests A (Cold) &amp; 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 Na: Thermal Shock - Manual Transfer (2 chamber method) Max temp: +85°C Min temp: -40°C Max chamber size: 950 mm x 950 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:Db EN 60068-2-78:2001:Cb EN 60068-2-78:2013</p> <p>EN 60068-2-1:2007:A Temperature EN 60068-2-2:2007:B</p> <p>EN 60068-2-14:1999:N IEC 60068-2-14:2009:N</p> <p>In house procedure CERT 9104.8360</p> <p>In house procedure CERT 9104.8237</p>
END		