


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>23412</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Pektron Group Ltd.</p> <p>Issue No: 004 Issue date: 03 January 2025</p>	
	<p>Alfreton Road Derby DE21 4AP United Kingdom</p>	<p>Contact: No commercial enquiries</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
<p>Electronic Products (non- explosive items): Automotive components</p>	<p>ENVIRONMENTAL TESTS (Non-explosive items)</p> <p>CLIMATIC</p> <p>Low Temperature (Constant and Cyclic) Min temp: -60 °C Max chamber: 0.75 m x 0.94 m X 0.75 m</p>	<p>BS EN 60068-2-1: 2007 BS EN 60068-2-1: 1993 Tests Ab,Ad, Ae BS ISO 16750-4: 2010 Clause 5.1.1 and 5.2</p>
	<p>High Temperature (Constant and Cyclic)</p> <p>Max temp: + 130 °C</p> <p>Max chamber size: 0.75 m x 0.94 m X 0.75 m</p>	<p>BS EN 60068-2-2: 2007 BS EN 60068-2-2: 1993 Tests Bb, Bd, Be BS ISO 16750-4:2010 clause 5.1.2 and 5.2</p>
	<p>Change of Temperature (Thermal Shock)</p> <p>Automatic transference Rapid – Air to Air Temp range: -55 °C to +105 °C Max Chamber: 0.62m x 0.45m x 0.38m</p> <p>Gradual – Single Chamber Temp range: -60 °C to +130°C Max rate of change: 5°C/min</p> <p>Max Chamber: 0.75 m x 0.94 m X 0.75 m</p>	<p>BS EN 60068-2-14: 2009 BS EN 60068-2-14: 2000 Tests, Na, Nb Excluding Test Nc BS ISO 16750-4: 2010 Clause 5.3</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Electronic Products (non- explosive items): Automotive components (cont'd)	ENVIRONMENTAL TESTS (Non-explosive items) (cont'd) CLIMATIC (cont'd) Damp Heat (steady state) Humidity/temperature ranges: 15%rh to 95%rh +20 °C to +85 °C Max Chamber size: 0.75 m x 0.94 m X 0.75 m	BS EN 60068-2-78: 2013 BS EN 60068-2-78: 2002 Test Cab BS ISO 16750-4:2010 Clause 5.7
	Damp Heat (Cyclic) Humidity/temperature ranges: 15%rh to 95%rh +20°C to +85°C Max Chamber size: 0.75 m x 0.94 m X 0.75 m	BS EN 60068-2-30: 2005 Test Db BS ISO 16750-4:2010 Clause 5.6 Test 1 and 3
	Composite Temp/Humidity cyclic testing Humidity/temperature ranges: 15%rh to 95%rh +20°C to +85°C Max Chamber size: 0.75 m x 0.94 m X 0.75 m	BS EN 60068-2-38 2009 BS EN 60068-2-38 1999 Test Z/AD BS ISO 16750-4:2010 Clause 5.6 Test 2



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Electronic Products (non- explosive items) Automotive components (cont'd)	ENVIRONMENTAL TESTS (Non-explosive items) (cont'd) DYNAMIC Vibration – sinusoidal Freq range: 5 – 2000 Hz Sine force , peak: 6.54 kN Displacement: 50.8 mm pk-pk (continuous) Temp range: Ambient Axes: Vertical only	BS EN 60068-2-6: 2008 BS EN 60068-2-6: 1996
	Vibration – Random Freq range: 5 – 2000 Hz Random force RMS: 7.60 kN Max displacement: 50.8 mm pk-pk (continuous) Temp range: Ambient Axes: Vertical only	BS EN 60068-2-64: 2008 + A1: 2019 BS EN 60068-2-64: 2008
	Shock (vibrator induced, and in vertical axis only) (Half sine) Severity: 10 g to 50 g Duration: 5.0 ms to 11.0 ms Max mass: 30 kg	BS EN 60068-2-27: 2009 BS EN 60068-2-27: 1993 Test Ea
	Rough Handling Shock Drop and Topple Free Fall (procedure 1, excluding repeated free fall procedure 2) Max item mass: 5.0 kg Max item size: 300 mm X 300 mm X 300 mm	BS EN 60068-2-31: 2008



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Electronic Products (non- explosive items) Automotive components (cont'd)	ELECTRONIC TESTS (Non-explosive items) Electronic Loads	ISO 16750-2 2006 (Withdrawn) Exclusions: Clauses 4.9 & 4.10 - Withstand voltage and Insulation resistance. ISO 16750-2 2010 (Withdrawn) ISO 16750-2 2012 (Withdrawn) Exclusions: Clauses 4.11 (Withstand Voltage) & 4.12 (Insulation resistance)
Electrical Enclosures (non-explosive items) Automotive components	INGRESS PROTECTION TESTS Ingress Protection Solid Foreign Objects / Access to Hazardous Parts IP4X: Objects Greater than 1.0 mm IP5X: Dust Protected IP6X: Dust Tight Water IPX5: Water Jets IPX7: Temporary Immersion	BS EN 60529:1992+A2:2013
	Ingress Protection Solid Foreign Objects / Access to Hazardous Parts IP4X Objects Greater than 1.0 mm IP5KX: Dust Protected IP6KX: Dust Tights Water IPX5: Water Jets IPX7: Temporary Immersion	BS ISO 20653: 2013 (Withdrawn)



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Electrical Enclosures (non-explosive items) Automotive components (cont'd)	INGRESS PROTECTION TESTS (cont'd) Chemical Load To +130°C Tmax Operating Temperature Code P	BS ISO 16750-5: 2010 (Withdrawn)
Electronic Products (non- explosive items) Automotive components	EMC TESTS Automotive EMC Tests Conducted emissions 0.15 MHz to 245 MHz	BS EN 55025:2008 CISPR 25:2008 BS EN 55025:2017 CISPR 25:2016 BS EN 55025:2022 CISPR 25:2021
	Radiated emissions 0.15 MHz to 5.925 GHz	BS EN 55025:2008 CISPR 25:2008 BS EN 55025:2017 CISPR 25:2016 BS EN 55025:2022 CISPR 25:2021
	Electrostatic Discharge Immunity C = 150 pF, R = 330 Ω C = 330 pF, R = 330 Ω C = 150 pF, R = 2kΩ C = 330 pF, R = 2kΩ Max level 30 kV for all	ISO 10605 2008
	Radiated Immunity Absorber Lined Chamber Vertical 200 MHz to 3.2GHz 200V/m Horizontal 400 MHz to 3.2GHz 200V/m	ISO 11452-2 2004 ISO 11452-2 2019



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Electronic Products (non- explosive items) Automotive components (cont'd)	EMC TESTS Automotive EMC Tests (cont'd) Bulk Current Injection 0.1 MHz to 400 MHz 0.1 to 1 MHz up to 66mA 1.0 to 400 MHz up to 200mA	ISO 11452-4 2005 ISO 11452-4 2011 ISO 11452-4 2020
	Automotive Transients, Noise and Voltage Tests	ISO 7637-2:2004 ISO 7637-2:2011 ISO 7637-3:2007 ISO 7637-3:2016
	EMC Tests These Generic and Product specific specifications are included in this schedule, but limited to those referred basic standards that are explicitly listed in this Section	BS EN 13766-2 2018
END		