

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 2645 Accredited to ISO/IEC 17025:2017	Alphatech Limited Issue No: 025 Issue date: 03 July 2026	
	Green House Homefield Road Industrial Estate Haverhill Suffolk CB9 8QP	Contact: Mr Kia Tabrizi Tel: +44 (0)1440 714709 Fax: +44 (0)1440 714706 E-Mail: test@alphatech.co.uk Website: www.alphatech.co.uk
Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Aerospace Components and Equipment Automotive Components and Equipment Computers and Peripherals Domestic Appliances Electrical/Electronic Components, Connectors and Products Electrical Cables Electro-Mechanical Devices Engine Control Systems Generators Industrial Printers IT Equipment LED Lamps and Luminaires Marine Equipment Measuring Equipment Medical Equipment Micro-Electronic Circuits and Components Motor Vehicle Accessories and Components Office Equipment Optical Fibre Equipment Packages and Packaging Material Paints and Varnishes Radar Equipment Radio and Television Equipment Railway Components and Equipment Road and Street Lighting Satellites and Sub-Assemblies Security Devices and Alarms Smoke Detectors Sonar Equipment Telecommunications Equipment	ENVIRONMENTAL TESTS non-explosive items DYNAMIC Vibration - Sinusoidal Freq range: 2 to 2000 Hz Peak thrust: 40 kN Max displacement: 76 mm pk-pk Temp range: Ambient Freq range: 2 to 2000 Hz Peak thrust: 8.9 kN Max displacement: 50 mm pk-pk Temp range: -40 °C to +100 °C Max ramp rate: 10 °C/min Chamber size: 0.75 m x 0.65 m x 0.65 m	BS 2011: Fc: 1983 (1986) BS EN 50125-2: 2003 BS EN 60068-2-6: 1996 BS EN 60068-2-6: 2008 BS EN 60068-2-50: 1983, 1999 BS EN 60068-2-51: 1983, 1999 BS EN 60068-2-53: 2010 DEF STAN 00-035: Part 3: Issue 3, Issue 4, Issue 5, Issue 6, Issue 7: Test M1 ETSI EN 300 019-2-1: V2.1.2,V2.3.1 ETSI EN 300 019-2-2: V2.1.2,V2.4.1 ETSI EN 300 019-2-3: V2.2.2- V2.5.1 ETSI EN 300 019-2-4: V2.2.2,V2.5.1 ETSI EN 300 019-2-5: V3.0.0-V3.1.1 ETSI EN 300 019-2-6: V3.0.0-V3.1.1 ETSI EN 300 019-2-7: V3.0.1-V3.1.1 ETSI EN 300 019-2-8: V2.1.2-V2.2.1 IEC 68-2-6: 1995 ISO 16750-3: 2023 MIL-STD-167-1A: 2005 MIL-STD-202F, G: Methods 201A, 204D MIL-STD-202H: Methods 201, 204 MIL-STD-750D, E: Methods 2046.2, 2051.2 2056, 2057.2 MIL-STD-750-2A-CN3: Methods 2046.2 2051.2056.3, 2057.4 MIL-STD-810E: Method 514.4 MIL-STD-810F: Method 514.5 MIL-STD-810G: Method 514.6



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As listed on Page 1	ENVIRONMENTAL TESTS (cont'd) non-explosive items (cont'd) DYNAMIC (cont'd) Vibration - Sinusoidal (cont'd)	MIL-STD-810H: (CN1): Method 514.8 MIL-STD-883F, G, H, J, K: Methods 2005.2, 2006.1, 2007.3 MIL-STD-1344A: 1977: Method 2005.1 RTCA/DO-160D, E, F, G: Section 8
	Vibration - Random Freq range: 2 - 2000 Hz RMS thrust: 40 kN Max displacement: 76 mm pk-pk Temp range: Ambient Freq range: 2 - 2000 Hz RMS thrust: 8.9 kN Max displacement: ± 25.4 mm Temp range: -40 °C to +100 °C Max ramp rate: 10 °C/min Chamber size: 0.75 m x 0.65 m x 0.65 m	BS 2011: Fd: 1973 (1984): Tests Fd, Fda, Fdb and Fdc BS EN 50125-2: 2003 BS EN 60068-2-64: 1995, 2008, 2008 + A1 2019 BS EN 61373: 1999, 2010 DEF STAN 00-035: Part 3: Issue 3, Issue 4, Issue 5, Issue 6, Issue 7: Test M1 ETSI EN 300 019-2-1: V2.1.2,V2.3.1 ETSI EN 300 019-2-2: V2.1.2,V2.4.1 ETSI EN 300 019-2-3: V2.2.2,V2.5.1 ETSI EN 300 019-2-4: V2.2.2,V2.5.1 ETSI EN 300 019-2-5: V3.0.0, V3.1.1 ETSI EN 300 019-2-6: V3.0.0, V3.1.1 ETSI EN 300 019-2-7: V3.0.1, V3.1.1 ETSI EN 300 019-2-8: V2.1.2-V2.2.1 IEC 68-2-34: 1973 IEC 68-2-37: 1973 ISO 16750-3: 2023 MIL-STD-202F, G: Method 214A MIL-STD-202H, G: Method 214 MIL-STD-810E: Method 514.4 MIL-STD-810F: Method 514.5 MIL-STD-810G: Method 514.6 MIL-STD-810H: (CN1): Method 514.8 MIL-STD-883F, G, H, J, K: Method 2026 RTCA/DO-160D, E, F, G: Section 8



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As listed on Page 1	ENVIRONMENTAL TESTS (cont'd) non-explosive items (cont'd) DYNAMIC (cont'd) Shock Vibrator Induced (Half sine, trapezoidal) Severity: 1 g to 100 g Duration: 0.2 ms to 100 ms (severity dependent) Max mass: 500 kg Temp range: Ambient (Terminal peak saw tooth) Severity: 1 g to 75 g Duration: 1 ms to 100 ms (severity dependent) Max mass: 500 kg Temp range: Ambient (Half sine, sawtooth, trapezoidal) Max severity: 50 g Max mass: 75 kg Temp range: -40 °C to +100 °C Max ramp rate: 10 °C/min Chamber size: 0.75 m x 0.65 m x 0.65 m	BS 2011: Ea: 1988 BS EN 50125-2: 2003 BS EN 60068-2-27: 1993, 2009 BS EN 61373: 1999, 2010 DEF STAN 00-035: Part 3: Issue3, Issue 4, Issue 5, Issue 6, Issue 7: Test M3 ETSI EN 300 019-2-1: V2.1.2,V2.3.1 ETSI EN 300 019-2-2: V2.1.2,V2.4.1 ETSI EN 300 019-2-3: V2.2.2 -V2.5.1 ETSI EN 300 019-2-4: V2.2.2,V2.5.1 ETSI EN 300 019-2-5: V3.0.0, V3.1.1 ETSI EN 300 019-2-6: V3.0.0, V3.1.1 ETSI EN 300 019-2-7: V3.0.1,V3.1.1 ETSI EN 300 019-2-8: V2.1.2-V2.2.1 IEC 68-2-27: 1987 ISO 16750-3: 2023 MIL-STD-202F, G: Method 213B MIL-STD-202H: Method 213 MIL-STD-750D, E: Method 2016.2 MIL-STD-750-2A-CN3: Method 2016.2 MIL-STD-810E: Method 516.4 MIL-STD-810F: Method 516.5 MIL-STD-810G: Method 516.6 MIL-STD-810H: (CN1): Method 516.8 MIL-STD-1344A: 1997: Method 2004.1 RTCA/DO-160D, E, F, G: Section 7



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As listed on Page 1	ENVIRONMENTAL TESTS (cont'd) (non-explosive items) (cont'd) DYNAMIC (cont'd) Bump Vibrator Induced Severity: 1 g to 100 g Duration: 1 ms to 50 ms (severity dependent) Max mass: 500 kg Temp range: Ambient Max severity: 50 g Max mass: 75 kg Temp range: -40 °C to +100 °C Max ramp rate: 10 °C/min Chamber size: 0.75m x 0.65m x 0.65m	BS 2011: Ec: 1977 (1983) BS EN 60068-2-29: 1993 DEF STAN 00-35: Part 3: Issue 3 Test M12 DEF STAN 00-035: Part 3: Issue 4, Issue 5, Issue 6, Issue 7: Test M3 ETSI EN 300 019-2-2: V2.1.2,V2.4.1 ETSI EN 300 019-2-3: V2.2.2-V2,5,1 ETSI EN 300 019-2-4: V2.2.2,V2.5.1 ETSI EN 300 019-2-5: V3.0.0,V3.1.1 ETSI EN 300 019-2-6: V3.0.0,V3.1.1 ETSI EN 300 019-2-7: V3.0.1,V3.1.1 ETSI EN 300 019-2-8: V2.1.2,V2.2.1 IEC 68-2-29: 1987 ISO 16750-3: 2023
	Rough Handling Shock Drop and Topple Max item mass: 45 kg Max item size: 1 m x 1 m x 1 m	BS 2011: Ec: 1977 BS EN 60068-2-31: 1993, 2008 DEF STAN 00-035: Part 3: Issue 3, Issue 4, Issue 5, Issue 6, Issue 7: Test M4 DEF STAN 07-55: 1975: Test A4 IEC 68-2-31: 1969
	Free Fall Max item mass: 45 kg Max item size: 0.5 m x 0.5 m x 0.5 m Max drop height: 1.5 m	BS 2011: Ed: 1992: Procedure 1 BS EN 60068-2-31: 2008: Excluding repeated free fall procedure 2 BS EN 60068-2-32: 1993 DEF STAN 00-035: Part 3: Issue 3, Issue 4, Issue 5, Issue 6, Issue 7 : Test M5: Vertical Impact Only DEF STAN 07-55: 1975: Test A9 IEC 68-2-32: 1975 ISO 16750-3: 2023 MIL-STD-810G: Method 516.6 Proc IV MIL-STD-810H: (CN1): Method 516.8 Proc IV



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As listed on Page 1	ENVIRONMENTAL TESTS (cont'd) non-explosive items (cont'd) CLIMATIC High Temperature Constant and Cyclic Max temp: +180 °C Max chamber size: 0.95 m x 1.5 m x 0.95 m	BS 2011: B: 1977 (1980) BS EN 60068-2-2: 1993, 2007, 2025 Tests Ba, Bb, Bd DEF STAN 00-35: Part 3: Issue 3: Test CL1 DEF STAN 00-035: Part 3: Issue 4, Issue 5, Issue 6, Issue 7: Test CL2 ETSI EN 300 019-2-1: V2.1.2,V2.3.1 ETSI EN 300 019-2-2: V2.1.2,V2.4.1 ETSI EN 300 019-2-3: V2.2.2-V2.5.1 ETSI EN 300 019-2-4: V2.2.2,V2.5.1 ETSI EN 300 019-2-5: V3.0.0,V3.1.1 ETSI EN 300 019-2-6: V3.0.0,V3.1.1 ETSI EN 300 019-2-7: V3.0.1,V3.1.1 ETSI EN 300 019-2-8: V2.1.2-V2.2.1 IEC 68-2-2: 1974 (1976) IEC 60068-2-2: 1974 ISO 16750-4: 2023 MIL-STD-810F: Method 501.4 MIL-STD-810G: Method 501.5 MIL-STD-810H: (CN1): Method 501.7
	Low Temperature Constant and Cyclic Min temp: -70 °C Max chamber: 0.95 m x 1.5 m x 0.95 m	BS 2011: A: 1990 BS EN 60068-2-1: 1993, 2007, 2025 Tests Aa, Ab, Ad DEF STAN 00-35: Part 3: Issue 3: Test CL4 & CL5 DEF STAN 00-035: Part 3: Issue 4, Issue 5, Issue 6, Issue 7: Test CL5 ETSI EN 300 019-2-1: V2.1.2,V2.3.1 ETSI EN 300 019-2-2: V2.1.2,V2.4.1 ETSI EN 300 019-2-3: V2.2.2-V2.5.1 ETSI EN 300 019-2-4: V2.2.2,V2.5.1 ETSI EN 300 019-2-5: V3.0.0, V3.1.1 ETSI EN 300 019-2-6: V3.0.0, V3.1.1 ETSI EN 300 019-2-7: V3.0.1,V3.1.1 ETSI EN 300 019-2-8: V2.1.2-V2.2.1 IEC 68-2-1: 1990 IEC 60068-2-1: 1993 ISO 16750-4: 2023



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As listed on Page 1	ENVIRONMENTAL TESTS non explosive items (cont'd) CLIMATIC (cont'd) Low Temperature (cont'd)	MIL-STD-810F: Method 502.4 MIL-STD-810G: Method 502.5 MIL-STD-810H: (CN1): Method 502.7
	Change of Temperature Thermal Shock Automatic transference Rapid - Air to Air Temp range: -70 °C to +200 °C Max chamber: 0.47 m x 0.64 m x 0.4 m Gradual - Single Chamber Temp range: -70 °C to +180 °C Max rate of change: 20 °C/min Max chamber: 0.57 m x 0.6 m x 0.75 m	BS 2011: N: 1985 (1987): Tests Na, Bb BS EN 60068-2-14: 2009 (withdrawn): Tests Na, Nb BS EN 60068-2-14: 2023: Tests Na, Nb DEF STAN 00-035: Part 3: Issue 3: Issue 4: Issue 5, Issue 6, Issue 7: Test CL14 ETSI EN 300 019-2-1: V2.1.2,V2.3.1 ETSI EN 300 019-2-2: V2.1.2-V2.5.1 ETSI EN 300 019-2-3: V2.2.2,V2.4.1 ETSI EN 300 019-2-4: V2.2.2,V2.5.1 ETSI EN 300 019-2-5: V3.0.0,V3.1.1 ETSI EN 300 019-2-6: V3.0.0,V3.1.1 ETSI EN 300 019-2-7: V3.0.1,V3.1.1 ETSI EN 300 019-2-8: V2.1.2-V2.2.1 IEC 68-2-14: 1984 ISO 16750-4: 2023 MIL-STD-810F: Method 503.4 MIL-STD-810G: Method 503.5 MIL-STD-810H: (CN1): Method 503.7 MIL-STD-883-1: Method 1010.9 RTCA/DO-160D, E, F, G: Section 5



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As listed on Page 1	ENVIRONMENTAL TESTS non explosive items (cont'd) CLIMATIC (cont'd) High Humidity Constant and Cyclic Humidity/temperature ranges: 15% RH to 95% RH 20 °C to 85 °C Max chamber size: 0.95 m x 1.5 m x 0.95 m	BS 2011: Ca: 1977 (1987) BS 2011: Cb: 1990 BS 2011: Db: 1981 (1987) BS EN 60068-2-30: 1999, 2005 BS EN 60068-2-38: 2021 BS EN 60068-2-78: 2002, 2013 DEF STAN 00-35: Part 3: Issue 3: Test CL7 DEF STAN 00-035: Part 3: Issue 4, Issue 5, Issue 6, Issue 7: Test CL6 ETSI EN 300 019-2-1: V2.1.2,V2.3.1 ETSI EN 300 019-2-2: V2.1.2-V2.5.1 ETSI EN 300 019-2-3: V2.2.2,V2.4.1 ETSI EN 300 019-2-4: V2.2.2,V2.5.1 ETSI EN 300 019-2-5: V3.0.0,V3.1.1 ETSI EN 300 019-2-6: V3.0.0,V3.1.1 ETSI EN 300 019-2-7: V3.0.1,V3.1.1 ETSI EN 300 019-2-8: V2.1.2-V2.2.1 IEC-68-2-3: 1969 IEC-68-2-30: 1980 IEC-68-2-56: 1988 ISO 16750-4: 2023 MIL-STD-810F: Method 507.4 MIL-STD-810G: Method 507.5 MIL-STD-810H: (CN1): Method 507.6 RTCA/DO-160D, E, F, G: Section 6



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As listed on Page 1	ENVIRONMENTAL TESTS non explosive items (cont'd) CLIMATIC (cont'd) Salt Spray Corrosion Chamber size: 1.46 m x 1.04 m x 0.72 m	ASTM B117-03, 07, 09, 11, 16, 18, 19 BS EN ISO 9227: 2006, 2012, 2017: 2022 + A1 2024: NSS Test BS EN 60068-2-11: 1999, 2021: Test Ka BS EN 60068-2-52: 1996, 2018 DEF STAN 00-35: Part 3 Issue 3: Test CN2 DEF STAN 00-035: Part 3: Issue 4, Issue 5, Issue 6, Issue 7: Test CN2 Salt Atmosphere and Mist, Fog and low cloud only ISO 16750-4: 2023 MIL STD 810F: Method 509.4 MIL STD 810G: Method 509.5 MIL STD 810H: Method 509.7 MIL STD 810H: CN1: Method 509.8 RTCA/DO-160D, E, F, G: Section 14
	Pressure, Low (Altitude) Min pressure : 4.49 kPa (equivalent altitude 70,000 ft) Max chamber size: 0.3 m diameter x 0.5 m deep	BS 2011: M: 1984 BS EN 60068-2-13: 1999 BS EN 60068-2-13: 2021 IEC 68-2-13:1983 MIL-STD-202F, G: Method 105C MIL-STD-750D: Method 1001.1 MIL-STD-750E: Method 1001.2 MIL-STD-810E: Method 500.3 MIL-STD-810F: Method 500.4 MIL-STD-810G: Method 500.5 MIL-STD-810H: (CN1): Method 500.6 MIL-STD-883F, G, H, J, K: Method 1001



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As listed on Page 1	ENVIRONMENTAL TESTS non explosive items (cont'd) Highly Accelerated Life Testing (HALT) Using Qualmark Typhoon 2.5 HALT/HASS Chamber Analysed Frequency Range: 10 Hz to 5 kHz Max Severity: 60 g (rms) Max item mass: 220 kg Max item size: 500 mm cube Temperature Range: -90°C to +200°C Max rate of change: 60°C/min Highly Accelerated Stress Screen (HASS) Using Qualmark Typhoon 2.5 HALT/HASS Chamber Analysed Frequency Range: 10 Hz to 5 kHz Max Severity: 60 g (rms) Max item mass: 220 kg Max item size: 500 mm cube Temperature Range: -90°C to +200°C Max rate of change: 60°C/min	Documented In-House Procedure AOI-24: Revision 6 Documented In-House Procedure AOI-24: Revision 6
END		