


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS CALIBRATION</p> <p>4110</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>1G Dynamics Limited</h3> <p>Draft Issue No: 006 Issue date: 28 March 2018</p>	
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<p>Calibration performed at the above address only</p>		

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k=2$)	Remarks
<p>ACCELERATION TRANSDUCERS</p> <p>Reference (precision) Grade</p> <p>Piezoelectric type Transducer at 23°C</p>	<p>High frequency Test Nominal peak acceleration 1g_n up to 10 g_n (9.81 up to 98 m/s⁻²) Charge Sensitivity >0.1 pCg_n (0.01 pC/ms⁻²) <1000 pCg_n (0.01 pC/ms⁻²)</p> <p>20 Hz to 5 kHz 5 kHz to 6.3 kHz 6.3 kHz to 10 kHz</p>	<p>1.5 % 2.0 % 2.5 %</p>	<p>Calibration of charge sensitivity by comparison with a reference (precision grade) transducer</p> <p>Transducer at ambient</p>
<p>Working or non-precision grades Piezoelectric type</p>	<p>High frequency Test Nominal peak acceleration 1g_n up to 10 g_n (9.81 up to 98 m/s⁻²) Charge Sensitivity >0.1 pCg_n (0.01 pC/ms⁻²) <1000 pCg_n (0.01 pC/ms⁻²)</p> <p>20 Hz to 5 kHz 5 kHz to 6.3 kHz 6.3 kHz to 10 kHz</p> <p>Low frequency Test Nominal peak acceleration 0.2 up to 2 g_n (1.96 up to 19.6 m/s⁻²) Charge Sensitivity >2 pCg_n (0.01 pC/ms⁻²) <1000 pCg_n (0.01 pC/ms⁻²)</p> <p>2 Hz to 20 Hz</p>	<p>1.5 % 2.0 % 2.5 % 1.5 %</p>	<p>Calibration of charge sensitivity by comparison with a reference (precision grade) transducer</p> <p>Transducer at ambient</p>



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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k=2)	Remarks
ACCELERATION TRANSDUCERS			Calibration of sensitivity by comparison with a reference (precision grade) transducer
Piezoresistive or strain-gauge type	High frequency Test Nominal peak acceleration 1 up to 10 g _n (9.81 up to 98 m/s ⁻²) System Sensitivity > 1mv/g _n (0.1 mv/ms ⁻²) < 1000 mv/g _n (100 mv/ms ⁻²)		Transducer at ambient
	20 Hz to 5 kHz 5 kHz to 6.3 kHz 6.3 kHz to 10 kHz	1.5 % 2.0 % 2.5 %	
	Low frequency Test Nominal peak acceleration 0.2 up to 2 g _n (1.96 up to 19.6 m/s ⁻²) System Sensitivity >0.05 mv/g _n (0.005 mv/ms ⁻²) < 1000 mv/g _n (100 mv/ms ⁻²)		Transducer at ambient
Integral electronics type	2 Hz to 20 Hz	1.5 %	Calibration of sensitivity by comparison with a reference (precision grade) transducer
	High frequency Test Nominal peak acceleration 1 up to 10 g _n (9.81 up to 98 m/s ⁻²) System Sensitivity > 1 mv/g _n (0.1 mv/ms ⁻²) < 1000 mv/g _n (100 mv/ms ⁻²)		Transducer at ambient
	20 Hz to 5 kHz 5 kHz to 6.3 kHz 6.3 kHz to 10 kHz	1.5 % 2.0% 2.5 %	



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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k=2$)	Remarks
Integral electronics type (Cont'd) PORTABLE ACCELEROMETER CALIBRATORS	Low frequency Test Nominal peak acceleration 0.2 up to 2 g_n (1.96 up to 19.6 m/s^2) System Sensitivity >1 mv/g_n (0.1 mv/ms^{-2}) <1000 mv/g_n (100 mv/ms^{-2}) 2 Hz to 20 Hz Over the ranges detailed above.	1.5 %	Calibration of sensitivity by comparison with a reference (precision grade) transducer Transducer at ambient
END			