Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

4110

Accredited to ISO/IEC 17025:2005

Cambridge Vibration Maintenance Services Ltd

Issue No: 003 **Issue date:** 13 March 2012

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Calibration performed at the above address only

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k=2)	Remarks
ACCELERATION TRANSDUCERS			
Reference (precision) Grade			
Piezoelectric type			
Transducer at 23ºC	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})		Calibration of charge sensitivity by comparison with a reference (precision grade) transducer
	20 Hz to 5 kHz 5 kHz to 6.3 kHz 6.3 kHz to 10 kHz	1.5 % 2.0 % 2.5 %	Transducer at ambient
Working or non-precision grades Piezoelectric type			
	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})		Calibration of charge sensitivity by comparison with a reference (precision grade) transducer
	20 Hz to 5 kHz 5 kHz to 6.3 kHz 6.3 kHz to 10 kHz	1.5 % 2.0 % 2.5 %	Transducer at ambient
	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})		
	2 Hz to 20 Hz	1.5 %	

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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
	2 Hz to 20 Hz	1.5 %	
Integral electronics type			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 %	
	Low frequency Test Nominal peak acceleration 0.2 up to 2 g_n (1.96 up to 19.6 m/s^{-2}) System Sensitivity >1mv/g_n (0.1 mv/ms^{-2}) <1000 mv/g_n (100 mv/ms^{-2})		Transducer at ambient
	2 Hz to 20 Hz	1.5 %	
PORTABLE ACCELEROMETER CALIBRATORS	Over the ranges detailed above.		

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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (*k*=2)	Remarks
SUPPORTING MEASUREMENTS			
AC CURRENT			
Generation			
	2.0 mA to 20 mA		
	20 Hz to 45 Hz	0.5 % + 4.0 μA	
	45 Hz to 1 kHz	0.3 % + 4.0 μA	
	1 kHz to 5 kHz	0.4 % + 4.0 μA	
TEMPERATURE	18 ºC to 28 ºC	1.0 ºC	Ancillary measurements associated with Accelerometery calibration only
END			