Appendix 10.2 Calibration Certificate for Vibration Monitoring Equipment

FT Laboratories Ltd.
科達測檢試驗所有限公司

HOKLAS 071
TEST CAL

Calibration Report

Calibration No.	:	**59838001 - H18F3402(A)**
Laboratory	:	FT Laboratories Ltd.
Address	:	Lot No. DD77 Section 1552 S.Ass 1RP, Ng Chow South Road, Ping Che, Fanling, New Territories
Telephone	:	(852) 2758 4861
Facsimile	:	(852) 2758 8962
Customer	:	**China State - STEC Joint Venture**
Address	:	**29/F China Overseas Building, 139 Hennessy Road, Wanchai, Hong Kong**

Item Calibrated	:	Name/Description:	Vibration monitoring device
		Manufacturer:	Nomis
		Meter's model:	Mini Supergraph II
		Serial no. of meter:	22495
		Serial no. of sensor:	X2 22495
		Eqt. No.:	-

Reference Standard / Major Measurement Equipment	:	C/ACC/1 (CNAS Cert No.: 2HB21001704-0001)	Accelerometer
		C/OSC/2 (CNAS Cert No.: J202502272020-0001)	Oscilloscope
		C/F-GEN/4 (CNAS Cert No.: 2HB25000347-0002)	Function Generator
		R/DMM/2 (CNAS Cert No.: 2HB25000347-0003)	Multimeter
		C/ES/1, C/AMP/3	Shaker and amplifier
Calibration Method	:	In-house calibration method CAL091. Calibration of Vibration monitoring device by comparison with a reference transducer.	
Date of item received	:	18 Aug., 2025	
Date of Calibration	:	22 Aug., 2025	
Date of Re-Calibration	:	22 Aug., 2026 (Information provided by client)	
Location of Calibration	:	Calibration Laboratory of FT Laboratories Ltd.	
Calibration Conditions			
Temperature	:	20 ± 3 °C	
Relative Humidity	:	30% to 80%	
Test Results	:	The test results are detailed in the subsequent page(s).	

HOKLAS Approved Signatory : _____ Date of Issue: 13 FEB 2026

☐ LAI Wing Chun, Victor (General Manager)

☑ CHAN Joseph Nicolas (Assistant Technical Manager)

Notes:

(1) **The above equipment has been calibrated against standards which are traceable to internationally recognized standards.**

(2) **Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.**

(3) **Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards.**

(4) **This certificate shall not be reproduced, except in full, without the written approval of FT Laboratories Ltd.**

(5) **This report replaces Report no.: 59838001 - H18F3402.**

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Calibration Report

Calibration No. : **59838001 - H18F3402(A)**

Results

(1) Frequency response at 10.0 mm/s (velocity measurement)

Frequency (Hz)	Measured velocity in the following direction (mm/s)			Error in the following direction (mm/s)		
	Vert.	Tran.	Long.	Vert.	Tran.	Long.
20	10.711	10.266	10.329	0.711	0.266	0.329
60	11.324	10.499	10.266	1.324	0.499	0.266
100	10.181	11.091	10.562	0.181	1.091	0.562

Error for frequency response = Measured velocity (mm/s) minus 10.0 mm/s

(2) Level linearity at 60Hz (velocity measurement)

Reference level (mm/s)	Measured velocity in the following direction (mm/s)			Error in the following direction (mm/s)		
	Vert.	Tran.	Long.	Vert.	Tran.	Long.
5.0	5.6303	5.2917	5.1858	0.6303	0.2917	0.1858
10.0	11.324	10.499	10.266	1.324	0.499	0.266
20.0	19.791	20.785	20.235	-0.209	0.785	0.235

Error for level linearity = Measured velocity (mm/s) minus Reference level (mm/s)

Remarks:

(A) The expanded uncertainty of measurement relative to "measured values" with $k = 2.0$,

10.7 % For frequency range 20 Hz to 100 Hz; 0.1 g to 0.8 g

(B) Each reported result is the mean of three measurements on UUT (unit-under-test).

(C) Before calibration, the UUT was allowed to stabilise in the laboratory environment for at least 1 hr.

(D) The reported uncertainty is the expanded uncertainty U for a level of confidence of 95%, together with a coverage factor, k. The combined standard uncertainty u_c can be calculated as $u_c = U/k$ and its k value.

(E) The values given in this Calibration Report only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.

(F) The UUT was mounted in the vibration shaker using mounting jigs and cyanoacrylate adhesive or petro wax.

(G) Applicable g value used, 1g = 9.80665 m/s^2, as per C/ACC/1 report no. 2HB21001704-0001.

(H) Amended report to correct typographical errors.

<End of Report>

Calibrated by: Yan Wing Man

Date: 22 Aug., 2025

Checked by: CH Cheung

Date: 13 FEB 2026

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