

Schedule

ETS Solutions Asia Pte Ltd
1 Kaki Bukit Road 1
#03-20 Enterprise One
Singapore 415934

Certificate No. : LA-2017-0656-C

Issue No. : 1

Date : 02 October 2017

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FIELD OF TESTING : Calibration and Measurement

MEASURED QUANTITIES / INSTRUMENTS / RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC*)
<p><u>VIBRATION</u></p> <p>1. Accelerometer (Voltage Sensitivity)</p> <p>4 Hz to 20 Hz > 20 Hz to 2000 Hz > 2000 Hz to 10000 Hz</p> <p>2. Electrodynamic Shaker Controller (AC Voltage , Charge)</p> <p><u>Input Channel</u> 1 Hz to < 10 Hz 10 Hz to < 2000 Hz 2 kHz to < 8 kHz 8 kHz to < 10 kHz 10 kHz to <15 kHz 15 kHz to 20 kHz</p> <p><u>Output Channel</u> 1 Hz to < 10 Hz 10 Hz to < 10000 Hz 10 kHz to < 15 kHz 15 kHz to 20 kHz</p>	<p>ETS In-house Procedure: SOP-CA-02</p> <p>Reference Accelerometer: Dytran 3123A / 3120B</p> <p>Vibration Research VR9500</p> <p>ETS In-house Procedure: SOP-CA-01</p> <p>Digital Multimeter: Agilent 34410A</p>	<p>2.2 % 1.8 % 3.4 %</p> <p>0.5 % 0.25 % 0.3 % 0.38 % 0.75 % 1 %</p> <p>0.5 % 1 % 1.3 % 1.5 %</p>

* CMC is expressed as an expanded uncertainty estimated at a level of confidence of approximately 95 %.

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Approved signatories

Mr Miko Trisetya Judiutama

Note :

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid test results. The **management system requirements** in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.

ACCREDITATION SCHEME



Number : **LA-2017-0656-C**

Date of Issue : **02 October 2017**

Date of Expiry : **01 October 2021**

Certificate of Accreditation

This certifies that

**ETS Solutions Asia Pte Ltd
1 Enterprise One
#03-20 Kaki Bukit Road 1
Singapore 415934**

is accredited by the Singapore Accreditation Council to

ISO / IEC 17025 : 2005

for specific scope within the field of

Calibration & Measurement

as detailed in the attached schedule.


Chairman

This Certificate is awarded subject to the organisation's compliance with the stated criteria and terms and conditions laid down by the Singapore Accreditation Council.

This Certificate may not be reproduced except with the written permission of the Chairman.