



**Application for Pattern Approval**

National Metrology Institute of Malaysia  
(National Measurement Standard Laboratory under Act 675)

SIRIM Berhad

Lot PT 4803

Bandar Baru Salak Tinggi

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Facsimile 603-8778 1661

Telephone 603-8778 1600

<http://www.sirim.my>

Company No. 367474 - V

<http://nmim.gov.my>

<b>Organisation details</b>	
Organisation name	.....
Address line 1	.....
Address line 2	.....
City	.....
ZIP/postal code	.....
State/province/region	.....
Country	.....
Address for correspondence	<input type="checkbox"/> Same as organisation address? If not the same, please write below
Address line 1	.....
Address line 2	.....
City	.....
ZIP/postal code	.....
State/province/region	.....
Country	.....
Address for accounts	<input type="checkbox"/> Same as organisation address? If not the same, please write below
Address line 1	.....
Address line 2	.....
City	.....
ZIP/postal code	.....
State/province/region	.....
Country	.....

Organisation type	<input type="checkbox"/> Manufacturer <input type="checkbox"/> Agent for manufacturer (attach a copy of your letter of authorisation as agent and supply manufacturer details below) <input type="checkbox"/> assembler of systems constituted of subsystems produced by various manufacturers <input type="checkbox"/> importers
Manufacturer name	.....
Address line 1	.....
Address line 2	.....
City	.....
ZIP/postal code	.....
State/province/region	.....
Country	.....
<b>Contact details</b>	
Title	<input type="checkbox"/> Dr <input type="checkbox"/> Miss <input type="checkbox"/> Mr <input type="checkbox"/> Mrs <input type="checkbox"/> Ms <input type="checkbox"/> Prof
Given name	.....
Surname	.....
Position	.....
Email	.....
Work phone	.....
Fax	.....
Mobile	.....
Preferred method of contact	<input type="checkbox"/> Email <input type="checkbox"/> Work phone <input type="checkbox"/> Mobile <input type="checkbox"/> Fax
<b>Application details</b>	
Type of application	<input type="checkbox"/> New pattern approval <input type="checkbox"/> Modification of approved pattern approval <input type="checkbox"/> Review of approval <input type="checkbox"/> existing type of instrument not previously approved by NMIM but stamped by Metrology Corporation (applies until 31 Dec 2019) <input type="checkbox"/> For Trade (ATS 1972) <input type="checkbox"/> For other legal purposes (please specify):..... .....
Category of instrument	
Approval number (if applicable)	.....

<b>Instrument details</b>	
Date of manufacture:	
Description of instrument, including technical characteristics and intended application	..... ..... .....
Maker and model	..... .....
Parameters, functions and features, e.g. min. and max capacity, range, limits, resolution	..... ..... .....
Software Type	<input type="checkbox"/> Embedded software  <input type="checkbox"/> Stand alone software
Modification (if applicable)	
<b>Supporting documents</b> <sup>Note 1</sup> (tick where applicable)	
<input type="checkbox"/> Application letter for pattern approval <input type="checkbox"/> Assembly drawings and detailed drawings <sup>Note 2</sup> <input type="checkbox"/> Manual for instruction for installation and preparation of an instrument for service, operating, maintenance and repair. <input type="checkbox"/> Catalogues and brochures <input type="checkbox"/> Detailed specifications of the instrument (e.g construction, assembly, adjustment, internal operation of the instrument, safety devices, self-adjusting mechanisms, assembly drawings, detailed drawings, layouts and schematic diagram) <input type="checkbox"/> Reports of test or calibrations from accredited laboratory in ISO 17025 <input type="checkbox"/> Type/Pattern approval report from other National Measurement Institutes <input type="checkbox"/> Latest stamping certificate and report <sup>Note 3</sup> <input type="checkbox"/> OIML Basic Certificate or OIML MAA Certificate <sup>Note 4</sup> <input type="checkbox"/> EC-Type Certificate <sup>Note 4</sup> <input type="checkbox"/> Countries Authority approval certificate issued stating the relevant OIML recommendation <sup>Note 4</sup> <input type="checkbox"/> Software Design Documentation <sup>Note 5</sup> : <input type="checkbox"/> Description of legally relevant software:	

- list of software modules that belong to the legally relevant part including a declaration that all legally relevant functions are included in the description;
- description of the software interfaces of the legally relevant software part and of the commands and data flows via this interface including a statement of completeness;
- description of the generation of the software identification;
- list of parameters to be protected and description of protection means;
- Description of system and hardware requirements:
  - description of suitable system configuration and minimal required resources;
  - overview of the system hardware, e.g. topology block diagram, type of computer(s), type of network, etc. Where a hardware component is deemed legally relevant or where it performs legally relevant functions, this should also be identified;
- Description of security:
  - description of security means of the operating system (password, etc. if applicable);
  - description of the software sealing method(s);
- Description of functionality:
  - Description of the accuracy of the algorithms (e.g. filtering of A/D conversion results, price calculation, rounding algorithms, etc.);
  - Description of the user interface, menus and dialogues;
  - List of commands of each hardware interface of the measuring instrument / electronic device / sub-assembly including a statement of completeness;
- Description of durability:
  - list of durability errors that are detected by the software and if necessary for understanding, a description of the detecting algorithms;
  - if fault detection is realized in the software, a list of faults that are detected and a description of the detecting algorithm;
- Description of data sets stored or transmitted;
- Software Operating Manual
- Side-by side comparison report of instrument and software submitted against the National Measurement Institute pattern approved instrument.

Note 1: Must be written in English or Bahasa Melayu. Translation from other languages to English or Bahasa Melayu must be endorsed by a certified translator or by the publisher of the document.

Note 2: Drawing for weigh in motion (WIM), platform scale and weighbridge shall be endorsed by Professional Engineers (PE)

Note 3: For existing instrument which is verified before obtaining pattern approval (applies until 31st Dec 2019)

Note 4: The validity of document shall be 10 years from the approval date

Note 5: The measuring instruments with respect to the application of software.

### **Terms and conditions**

I hereby agree that:

- All the information and supporting documents given in this application is true.
- Instrument/software submitted with this application is in good conditions.

- Bears all the risk and cost or damage to the instruments while in NMIM, SIRIM.
- No hidden undocumented program functions, relevant data structures and software interfaces.
- To provide a copy of fully functional software when requested by NMIM <sup>Note 5</sup>
- Payable fee according to NMIM payment terms and conditions

.....  
Signature

.....  
Date

.....  
Name of signatory

.....  
Position