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| OIML Member State Denmark | OIML Certificate No. R51/2006-A-DK2-2023.01 |
| OIML CERTIFICATE ISSUED UNDER SCHEME A | |
| OIML Issuing Authority Name: FORCE Certification A/S Address: Park Allé 345, 2605 Brøndby, Denmark Person responsible: Per Rafn Crety | |
| Applicant Name: Shubham Automation Pvt. Ltd. Address: Plot No. 40/10, Phase – I, GIDC, Vatva, Ahmedabad, Gujarat 382445 India | |
| Manufacturer Shubham Automation Pvt. Ltd. | |
| Identification of the certified type <i>(the detailed characteristics will be defined in the additional pages)</i> eWC100-C | |
| Designation of the module <i>(if applicable)</i> Weighing transmitter for automatic catchweigher | |
| <p>This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):</p> <p>OIML R 51-1, Edition (year): 2006</p> <p>For accuracy class (if applicable): Y(a), XIII, Y(b) and XIII</p> | |

OIML Certificate No.
R51/2006-A-DK2-2023.01

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML reports:

Type examination report: No. DANAK-1918640, dated 06 December 2017, that includes 76 pages

Type examination report: No. 122-33361.10, dated 14 January 2023, that includes 87 pages

Type evaluation report: No. 122-33361.90.20, dated 20 January 2023, that includes 13 pages

The technical documentation relating to the identified type is contained in documentation file:
117-26767

OIML Certificate History

| Revision No. | Date | Description of the modification |
|-----------------|--------------|---------------------------------|
| Initial version | 06 June 2023 | - |
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Identification, signature and stamp

The OIML Issuing Authority

FORCE Certification A/S

Date: 06 June 2023

Jens Hovgård Jensen

Certification Manager

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

Descriptive annex

Characteristics

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|--|---|
| Type: | eWC100-C |
| Accuracy class: | Y(a), XIII, Y(b) and XIII |
| Weighing range: | Single-interval, multi-range or multi-interval |
| Maximum number of Verification Scale Intervals: | 10000 (class Y(a) and XIII), 1000 (class Y(b) and XIII) or 3×10000 (class Y(a) and XIII), 3×1000 (class Y(b) and XIII) |
| Maximum tare effect: | -Max for single-interval and multi-range -Max ₁ for multi-interval |
| Fractional factor: | p _i = 0.5 |
| Minimum input-voltage per VSI: | 0.3 μV |
| Maximum time between automatic zero-setting: | 21 minutes for e ≥ 0.3 μV 75 minutes for e ≥ 1.0 μV |
| Minimum warm-up time: | 15 minutes for e ≥ 0.3 μV 8 minutes for e ≥ 1.0 μV |
| Excitation voltage: | 5 VDC |
| Load cell interface: | 4-wire or 6-wire |
| Minimum input-impedance: | 58 Ohm |
| Maximum input-impedance: | 1100 Ohm |
| Electromagnetic class (OIML D11:2013): | E2 |
| Mains power supply: | 9-32 VDC - not to be supplied from DC mains. |
| Operational temperature: | -15 °C to +55 °C |
| Maximum cable length between eWC100-C and junction box | 1132 m/mm ² |

Identification

The model number may be viewed by sending “FPN” to the unit, which responds with ‘P:xxxxxxx’.
The tested model number is ‘P:eWC100-C’

The serial number of the unit may be viewed by sending “RS” to the unit, which responds with ‘S+xxxxxxx’.

Software

The software version may be viewed by sending “FFV” to the unit, which responds with ‘Vxx.yy’.
The approved software version is: V02.xx, where xx ≥ 00

Access to metrological characteristics and span adjustment

Access to the configuration and calibration facility is achieved by sending a Traceable Access Code (TAC), which is a non-volatile number that automatically incremented each time the calibration modus is left by the operator. The TAC may be reviewed by sending CE to the unit, which responds the status code as CExxxxx. The code increments up to 65535.

Securing of metrological characteristics and span adjustment

Access to the configuration and calibration facility is secured by the TAC.

Devices

- Initial zero setting device ($\leq 20\%$ of Max)
- Semi-automatic zero setting device ($\leq 4\%$ of Max)
- Zero tracking device ($\leq 4\%$ of Max)
- Semi-automatic subtractive tare balancing device
- Preset tare device
- Automatic tare device
- Event counter (TAC).

Display and buttons

The eWC100-C has neither display nor buttons.

Interfaces

- RS-485
- RS232
- CANopen
- 2 logical inputs
- 2 logical outputs

The interfaces do not have to be secured.

