



OIML Member State
Denmark

OIML Certificate No.
R76/2006-A-DK2-2020.09

OIML CERTIFICATE ISSUED UNDER SCHEME A

OIML Issuing Authority

Name: **FORCE Certification A/S**
Address: Park Allé 345, 2605 Brøndby, Denmark
Person responsible: Leif Madsen

Applicant

Name: **Cardinal Scale Manufacturing Company**
Address: 102 East Daugherty Street,
Webb City, Missouri 64870
USA

Manufacturer Cardinal Scale Manufacturing Company

Identification of the certified type (*the detailed characteristics will be defined in the additional pages*)

420

Designation of the module (*if applicable*)

Non-automatic electronic weighing instrument

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):

OIML R 76-1, Edition (year): 2006

For accuracy class (if applicable): II

**OIML Certificate No.
R76/2006-A-DK2-2020.09**

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-1916955, dated 20 October 2016, that includes 100 pages

Type evaluation report: No. 120-28285.90.40 dated 25 June 2020, that includes 19 pages

The technical documentation relating to the identified type is contained in documentation file:
120-28285.90.40

OIML Certificate History

| Revision No. | Date | Description of the modification |
|---------------------|--------------|--|
| Initial version | 03 July 2020 | - |
| | | |
| | | |

Identification, signature and stamp

The OIML Issuing Authority

FORCE Certification A/S

Date: 03 July 2020

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

| | |
|---|---|
| Type: | 420 |
| Accuracy class | II |
| Weighing range | Single interval |
| Maximum number of verification scale intervals: | ≤ 7500 |
| Maximum capacity (Max): | 300 g to 3000 g |
| Minimum capacity (Min): | See table 1 |
| Verification scale interval(e): | See table 1 |
| Maximum tare effect: | -Max |
| Temperature range. | +5 °C to +40 °C |
| Power supply: | 12 VDC from external power supply intended for 100-240 VAC, 50-60 Hz, 6 V internal battery (optional) |

Software

The software version 2.05 (Displayed as VER 205).

This information is displayed at power up.

Table 1: Models

| Models | Max capacity | Min capacity | e | d | n | Indication device | Load cell | | | |
|----------|--------------|--------------|--------|---------|------|-------------------|----------------------|------------------|------------------|---------|
| | | | | | | | No. | E _{max} | V _{min} | |
| 420-300 | 300 g | 1 g | 0.05 g | 0.005 g | 6000 | Extended | HBM-SPL | 600 g | ≤ 0.05 g | |
| 420-600 | 600 g | 0.2 g | 0.1 g | 0.01 g | 6000 | Auxiliary | | 600 g | ≤ 0.1 g | |
| 420-1200 | 1200 g | 10 g | 0.2 g | 0.02 g | 6000 | Extended | HBM-SPL | 3 kg | ≤ 0.2g | |
| | 6000 ct | 50 ct | 1 ct | 0.1 ct | | | | | | |
| 420-1500 | 1500 g | 10 g | 0.2 g | 0.02 g | 7500 | Extended | | HBM-SPL | 3 kg | ≤ 0.2g |
| | 7500 ct | 50 ct | 1 ct | 1 ct | | | | | | |
| 420-3000 | 3000 g | 25 g | 0.5 g | 0.05 g | 6000 | Extended | HBM-PW6C Class C6 | | 5 kg | ≤ 0.5 g |

Devices

- Initial zero setting device ($\pm 10\%$ of Max)
- Semi-automatic zero setting device ($\leq \pm 2\%$ of Max)
- Zero tracking device ($\leq \pm 2\%$ of Max)
- Zero indicator
- Net indicator
- Stable weight indicator
- Semi-automatic subtractive tare balancing device
- Auxiliary indication (model 420-600 only)
- Extended indication (all models except 420-600)
- Unit, g and ct (model 420-1200 and 420-1500 only)
- Low battery indicator
- Calibration / set-up mode via sealed internal switch

Interfaces

- RS232

