

OIML Member State
The Netherlands

Issuing authority NMI Certin B.V.
Person responsible: C. Oosterman

Applicant and Manufacturer Precia S.A.
B.P. 106
07001 Privas Cedex
France

Identification of the certified type A **bending beam load cell**, with strain gauges.
Registered trade name : PRECIA MOLEN
Type : BBL-INT

Characteristics See next page

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 60 - Edition 2017 (E) for accuracy class C

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified. This Certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was 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.

Issuing Authority **NMI Certin B.V., OIML Issuing Authority NL1**
8 October 2019


C. Oosterman
Head Certification Board

OIML Member State
The Netherlands

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

- No. NMI-2309247-01 dated 4 September 2019 that includes 52 pages;
- No. NMI-2309247-02 dated 4 September 2019 that includes 24 pages;
- No. NMI-2309247-03 dated 4 September 2019 that includes 24 pages.

Characteristics of the load cell:

| Characterization of load cell capabilities | Analog passive load cell | | |
|---|--------------------------------------|--------------------|-----------------------------------|
| Maximum capacity (E_{max}) | 5 kg up to 30 kg | 30 kg up to 100 kg | 100 kg up to and including 500 kg |
| Minimum dead load | 0 kg | | |
| Accuracy Class | C | | |
| Rated Output | 2 mV/V \pm 0,1 mV/V | | |
| Maximum number of load cell intervals (n) ⁽¹⁾ | 4000 | 3000 | 4000 |
| Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$ | 20000 | | |
| Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$ | 4000 | | |
| Input impedance | 400 Ω \pm 20 Ω | | |
| Temperature range | -10 $^{\circ}$ C / + 40 $^{\circ}$ C | | |
| Fraction p_{LC} | 0,7 | | |
| Humidity Class | CH | | |
| Safe overload | 200 % of E_{max} | | |
| Output impedance | 350 Ω \pm 3 Ω | | |
| Recommended excitation | 10 V AC / DC | | |
| Excitation maximum | 15 V AC / DC | | |
| Transducer material | Stainless steel | | |
| Atmospheric protection | Hermetically sealed/welded | | |

Remark:

1. The characteristics for n_{max} , Y and Z can be reduced separately.

Each load cell produced is provided with an accompanying document with information about its characteristics.

The above identified Type (represented by the sample(s) identified in the OIML Test Report) have been found to comply with the additional national requirements established by the United States of America (NIST Handbook 44 and NCWM Publication 14), included in the Utilizer Declaration:

- R 60 OIML-CS rev.2 Additional requirements from the United States Accuracy class III L;
- R 60 OIML-CS rev.2 Additional requirements from the United States Marking requirements.