

OIML Member State
The Netherlands

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Issuing authority

NMi Certin B.V.
Person responsible: M.Ph.D. Schmidt

Applicant and
Manufacturer

Giropes SL
Pol. Ind. Empordà Internacional, C/ Molló 3
17469 Villamalla, Girona
Spain

Identification of the
certified type

A **single point load cell**, with strain gauges.
Registered trade name : GIROPES
Type : GY13 series

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 60-1:2017 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.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
6 October 2022

Certification Board

NMi Certin B.V.
Thijsseweg 11
2629 JA Delft
The Netherlands
T +31 88 6362332
certin@nmi.nl
www.nmi.nl

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

- No. NMI-2287911-02 dated 29 July 2022 that includes 51 pages;
- No. NMI-2287911-03 dated 29 July 2022 that includes 46 pages.
- No. NMI-2287911-04 dated 29 July 2022 that includes 46 pages.
- No. NMI-2287911-05 dated 29 July 2022 that includes 46 pages.
- No. NMI-2287911-06 dated 29 July 2022 that includes 46 pages.

Characteristics of the load cell:

Model **GY13**:

| | | |
|---|------------------|---------------------------------|
| Maximum capacity (E_{max}) | 3 kg up to 30 kg | 30 kg up to and including 50 kg |
| Maximum number of load cell intervals (n) ⁽¹⁾ | 4500 | 6000 |
| Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / v_{min}$ | 6000 | 20000 |
| Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$ | 6000 | |

Model **GY13L**:

| | | |
|---|------------------|----------------------------------|
| Maximum capacity (E_{max}) | 3 kg up to 30 kg | 30 kg up to and including 100 kg |
| Maximum number of load cell intervals (n) ⁽¹⁾ | 5000 | 6000 |
| Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / v_{min}$ | 14000 | 20000 |
| Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$ | 6000 | |

Model **GY13W**:

| | |
|---|----------------------------------|
| Maximum capacity (E_{max}) | 40 kg up to and including 200 kg |
| Maximum number of load cell intervals (n) ⁽¹⁾ | 6000 |
| Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / v_{min}$ | 20000 |
| Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$ | 6000 |

| | |
|--|--------------------------------|
| Characterization of load cell capabilities | Analog-passive load cell |
| Minimum dead load | 0 kg |
| Accuracy Class | C |
| Rated Output | 2 mV/V \pm 0,3 mV/V |
| Input impedance | 402 Ω \pm 15 Ω |

| | |
|------------------------|----------------------------|
| Temperature range | -10 °C / + 40 °C |
| Fraction p_{LC} | 0,7 |
| Humidity Class | CH |
| Safe overload | 150 % of E_{max} |
| Output impedance | $365 \Omega \pm 35 \Omega$ |
| Recommended excitation | 10 V AC / DC |
| Excitation maximum | 15 V AC / DC |
| Transducer material | Aluminium |
| Atmospheric protection | Silicon rubber |

Remarks:

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.

Revision History

| Revision | Date | Change(s) |
|----------|------------|----------------|
| 0 | 2022-10-06 | Initial issue. |