



# OIML Certificate of Conformity

**OIML Member State**  
The Netherlands

Number R60/2000-NL1-17.01  
Project number SO15204295  
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Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and Manufacturer	Vishay Celtron (Tianjin) Technnologies No. 5 Binguan Nan Dao Youyi Road Hexi District Tianjin 300061 China
Identification of the certified type	A <b>single point / bending beam load cell</b> , with strain gauges, Type : 1022, 1022P, LPS
Characteristics	See next page

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 R60** - Edition 2000 (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 Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**  
13 February 2017

  
C. Oosterman  
Head Certification Board

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The notification of NMi Certin B.V. as Issuing Authority can be verified at [www.oiml.org](http://www.oiml.org)



The conformity was established by the results of tests and examinations provided in the associated OIML Test Report(s):

- No. R60/2000-NL1-10.26 revision 1 dated 2 February 2017 that includes 39 pages.

**Characteristics of the load cell:**

Maximum capacity ( $E_{max}$ )	20 kg up to and including 100 kg
Minimum dead load	0 kg
Accuracy Class	C
Rated Output	2,0 mV/V +/- 0,2 mV/V
Maximum number of load cell intervals (n)	6000
Ratio of minimum LC Verification interval $Y = E_{max} / v_{min}$	22000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	7500
Input impedance	415 $\Omega \pm 15 \Omega$
Temperature range	-10 °C / + 40 °C
Fraction $p_{LC}$	0,7
Humidity Class	CH
Safe overload	150 % of $E_{max}$
Output impedance	350 $\Omega \pm 3 \Omega$
Recommended excitation	10 V AC / DC
Excitation maximum	15 V AC / DC
Transducer material	Anodized or non-anodized aluminium
Atmospheric protection	Adhesive silicone rubber

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

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