OIML Certificate of Conformity

OIML Member State
The Netherlands

Number R60/2000-NL1-15.19
Project number 15200513

Issuing authority	NMi Certin B.V. Person responsible: C. Oosterman
Applicant and Manufacturer	Vishay Celtron (Tianjin) Technologies No. 5 Binguan Nan Dao Youyi Road Hexi District, Tianjin 300061 China
Identification of the certified type	A **tension load cell**, with strain gauges, Type : STC
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**
21 December 2015

C. Oosterman
Head Certification Board

NMi Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
the Netherlands
T +31 78 6332332
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 Report(s):

- No. NMi-15200513-01 dated 21 December 2015 that includes 51 pages;
- No. NMi-15200513-02 dated 21 December 2015 that includes 46 pages;
- No. NMi-15200513-03 dated 21 December 2015 that includes 46 pages.

Characteristics of the load cell:

Maximum capacity (E_{max})	25 kg up to 100 kg	100 kg up to 500 kg	500 kg up to and including 2500 kg
Minimum dead load	0 kg		
Accuracy Class	C		
Rated Output	2,0 mV/V ± 10%	3,0 mV/V ± 10%	3,0 mV/V ± 10%
Maximum number of load cell intervals (n)	3000		
Ratio of minimum LC Verification interval $Y = E_{max} / v_{min}$	15000	7800	15000
Ratio of minimum dead load output return $Z = E_{max} / (2 * DR)$	3000	12000	3800
Input impedance	385 Ω ± 30 Ω		
Temperature range	-10 °C / +40 °C		
Fraction p_{LC}	0,7		
Humidity Class	CH		
Safe overload	150 % of E_{max}		
Output impedance	350 Ω ± 5 Ω		
Recommended excitation	10 V AC / DC		
Excitation maximum	15 V AC / DC		
Transducer material	Alloy steel or stainless steel		
Atmospheric protection	IP67		

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.

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 MAA Declaration of Mutual Confidence:

- R 60 DoMC-01 rev.0, Additional requirements from the United States;
- R 60 DoMC-02 rev.0, Additional requirements from the United States.