

OIML Member State
The Netherlands

Number R60/2017-A-NL1-21.36
Project number 2452739
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Issuing authority

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

Applicant and
Manufacturer

Coti Global Sensors, Inc.
5699 Highway 53
Harvest, AL 35749
United States of America

Identification of the
certified type

An **S-type load cell**, with strain gauges.
Registered trade name : Coti Global Sensors, Inc.
Type : CGSB
CGSB-1
CGSB-SS
CGSB-SS-1

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.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
14 October 2021

Certification Board

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

- No. NMI-2452739-01 dated 13 October 2021 that includes 27 pages;
- No. NMI-2452739-02 dated 13 October 2021 that includes 25 pages.
- No. NMI-2452739-03 dated 13 October 2021 that includes 24 pages;
- No. NMI-2452739-04 dated 13 October 2021 that includes 24 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell		
Loading direction	Compression or tension		
Load cell transmission type	Bending beam		Shear beam
Maximum capacity (E_{max})	45 kg up to 340 kg	340 kg up to and including 1500 kg	1500 kg up to and including 7500 kg
Minimum dead load	0 kg		
Accuracy Class	C		
Rated Output	3 mV/V \pm 0,25%		
Maximum number of load cell intervals (n) ⁽¹⁾	3000	3000	3000
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	14000	11100	11100
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	3400	5700	5170
Input impedance	385 Ω \pm 10 Ω		
Temperature range	-10 $^{\circ}$ C / + 40 $^{\circ}$ C		
Fraction p_{LC}	0,7		
Humidity Class	CH		
Safe overload	150 % of E_{max}		
Output impedance	350 Ω \pm 3 Ω		
Recommended excitation	10 V AC / DC		
Excitation maximum	20 V AC / DC		
Transducer material	Alloy steel / Stainless steel		
Atmospheric protection	Silicone / RTV		

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.