

OIML Member State
The Netherlands

Number R60/2021-A-NL1-24.21 revision 0
Project number 2462987
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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

A **compression load cell**, with strain gauges, equipped with electronics.
Registered trade name :Coti Global Sensors, Inc.

Type

CG-26S3-..., CG-26S5-..., CG-175-..., CG-21-...,
CG-SP9-..., CG-92-..., CG-TC42-...

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 60-1:2021 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
9 July 2024

Certification Board

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This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon on top of the electronic version of this certificate.



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The conformity was established by the results of tests and examinations provided in the associated reports:

- No. NMI-2462987-01 dated 9 July 2024 that includes 51 pages;
- No. NMI-2462987-02 dated 9 July 2024 that includes 46 pages.

Characteristics of the load cell:

Characterization of load cell capabilities	Analog-passive load cell	
Model	CG-26S3-..., CG-26S5-..., CG-21-..., CG-SP9-..., CG-92-..., CG-TC42-...	CG-175-...
Maximum capacity (E_{max})	22,68 t up to and including 113,4 t	
Minimum dead load	0 t	
Accuracy Class	C	
Rated Output	2 mV/V \pm 0,25 %	1,75 mV/V \pm 0,25 %
Maximum number of load cell intervals (n) ⁽¹⁾	3000	
Ratio of minimum LC Verification interval ⁽¹⁾ $Y = E_{max} / V_{min}$	25000	22800
Ratio of minimum dead load output return ⁽¹⁾ $Z = E_{max} / (2 * DR)$	4800	7900
Input impedance	385 Ω \pm 10 Ω or 450 Ω \pm 10 Ω	450 Ω \pm 10 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 \pm 5 Ω or 480 Ω \pm 5 Ω	480 Ω \pm 5 Ω
Recommended excitation	10 V AC / DC	
Excitation maximum	20 V AC / DC	
Transducer material	Stainless steel	
Atmospheric protection	Hermetically 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.



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- 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	2024-07-09	Initial issue.