

# **TEST CERTIFICATE**

First addition to number E-15.02.C01 (First modification).

### LOAD CELL TYPE GS-2

Issued by:

LGAI TECHNOLOGICAL CENTER S.A.

(Notified body 0370). Campus de la U.A.B.

Ronda de la Font del Carme, s/n. E-08193 BELLATERRA SPAIN.

In accordance with Paragraph 3.10 of the European Standard "Metrological aspects of non-automatic weighing instruments" EN 45501:2015. The applied error fraction pi with reference to paragraphs 3.10.2.1 of this standard is 0,7. In accordance with paragraph F.2 of Annex F of this standard, the tests have been performed according to the OIML International Recommendation, OIML

R 60 (2000).

Issued to:

TRANSDUTEC, S.A.

Calle Industria, 1.

E-08390 MONTGAT ESPAÑA.

In respect of:

The model of a load cell, tested as part of a non-automatic weighing instrument.

Manufacturer: TRANSDUTEC, S.A.

Type: GS-2.

This first addition complements the test certificate number E-15.02.C01, with changes relatives a new external geometry, a new version and the change of address of the manufacturer.

Characteristics:

Classification				C3↑			C4↓		
Maximum number of LC verification intervals $n_{LC}$			3000			4000			
Maximum capaci	ту	Emax	40	50	75	100	150	200	kg
Ratio minimum LC verification interval $Y = E_{max}/v_{min}$			10000						
additional marking 	temperature limits -10°C/+40°C	rated output C = 2 mV/V	impedance input $R_{LC} = 383 \Omega$		minimum dead load E <sub>min</sub> = 0 kg			safe overload E <sub>Irr</sub> /E <sub>max</sub> = 125%	

The main characteristics are shown in the descriptive annex, which is an integral part of the test certificate and consists of 6 pages.

The type is described in the submitted technical documentation, identified with number 03/15. The changes covered by this first addition are described in the submitted additional technical documentation, identified with number 04/17 (17/34551457-D).

Managing Director

Technological Center & A Product Conformity B.U.

GAXavier Ruiz Peña

Bellaterra, 09 may 2018

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### 1.- Name and type of the instrument.

Load cell type GS-2.

Manufactured by:

TRANSDUTEC, S.A. Calle Industria, 1. E-08390 MONTGAT ESPAÑA.

It is using any concrete trade mark.

## 2.- Description of the modification.

This annex to first addition to the test certificate number E-15.02.C01 describes a modification of the type GS-2.

This first addition to the test certificate number E-15.02.C01 describes changes relatives a new external geometry, a new version and the change of address of the manufacturer.

This first addition affects paragraph 1, paragraph 2, paragraph 5 and Figure 7 of the descriptive annex to the test certificate number E-15.02.C01.

This first additional is affected by the addition of Figure 8 and Figure 9 of this descriptive annex.

#### 3.- Text after modification

Paragraph 1 of the annex to the test certificate number E-15.02.C01 were made void and replaced by paragraph 1 of this descriptive annex.

Paragraph 2 of the annex to the test certificate number E-15.02.C01, were made void and replaced by paragraph 3.1 of this descriptive annex.

Paragraph 5 of the annex to the test certificate number E-15.02.C01, were made void and replaced by paragraph 3.2 of this descriptive annex.

Figure 7 (drawing gs2-06) of the annex to the test certificate number E-15.02.C01, were made void and replaced by Figure 7 (drawing gs2-06) of this descriptive annex.

This first addition includes Figure 8 (drawing gs2-2\_02) and Figure 9 (drawing gs2-1a\_02) of this descriptive annex.

Campus UAB -Ronda de la Font del Carme, s/n E- 08193 Bellaterra (Barcelona) T: +34 935 672 000

Fax: +34 935 672 001



#### 3.1.- Functional description.

Load cell type GS-2 is a bending load cell. The principle of measurement is that of strain gauges, as a full bridge, in an elastic element.

Load cell type GS-2 has two versions, the GS-2-1A version and GS-2-2 version.

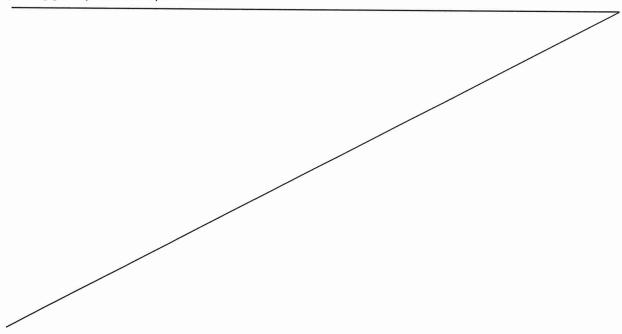
Load cell type GS-2 is clamped with two screws in an end.

Reference is made to Figure 1 (general view), Figure 2 (drawing gs2-01), Figure 3 (drawing gs2-02) and Figure 4 (drawing gs2-03) of the annex to the test certificate number E-15.02.C01 and Figure 8 (drawing gs2-2\_02) and Figure 9 (drawing gs2-1a\_02) of this descriptive annex.

#### 3.2.- Location of the indications.

The indications required according to point 4.6 of OIML R 60 (2000) are in characteristics label.

Reference is made to Figure 6 (drawing gs2-05) of the annex to the test certificate number E-15.02.C01 and Figure 7 (drawing gs2-06) of this descriptive annex.



Description of the modification M1:

The unit "t" has been modified in the characteristics table by "kg". This certificate cancels and replaces the previous First addition to the Test Certificate number E-15.02.C01 dated 2018-01-23. It is the responsibility of the petitioner to annul the certificates that are replaced by the same.

"The present document is a translation of the First addition to the Test Certificate number E-15.02.C01 (First modification). In case of dispute, the valid document is the original Spanish version"



Figure 7.- Drawing gs2-06: labels description.

:ransdubec, s.a.

C/Industria, 1 - B1 08930 Montgat - Barcelona

Tel: +34 933810004 - Fax: +34 934620599

Designation: GS2 Number: 98601 Year: 2017

E-15.02.C01

C3 **↓** -10°C/+40°C

Emin: Emax:

L:

Vmin:

g

kg

Sensitivity: 2mV/V

Range of excitation: 5...12V

Rin: 383 Ohms ± 2%

Rout: 350 Ohms ± 2%

C4 **\** -10°C/+40°C

Emin:

Emax:

kg L:

kq

Vmin:

g

Sensitivity: 2mV/V

Range of excitation: 5...12V

Rin: 383 Ohms ± 2%

Rout: 350 Ohms ± 2%



Figure 8.- Drawing gs2-2\_02: dimensions load cell version GS-2-2.

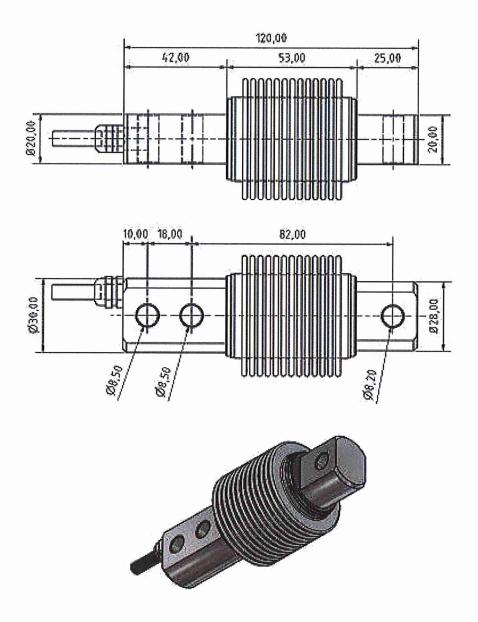




Figure 9.- Drawing gs2-2\_1a: dimensions load cell version GS-2-1A.

