



Generalitat de Catalunya
 Departament de Treball i Indústria
 Direcció General d'Energia,
 Mines i Seguretat Industrial
 Subdirecció General de Seguretat Industrial
 Servei d'Automòbils i Metrologia
 Secció de Metrologia

TEST CERTIFICATE

Second addition to number E-00.02.C05
 LOAD CELL TYPE PL-50

Issued by: Direcció General d'Energia, Mines i Seguretat Industrial - Generalitat de Catalunya
 (notified body number 0315)
 Avinguda de la Diagonal, 405 bis
 E-08008 BARCELONA SPAIN

In accordance with: Paragraph 8.1 of the European Standard "Metrological aspects of non-automatic weighing instruments" EN 45501:1992(+AC:1993). The applied error fraction p_i with reference to paragraphs 3.5.4 and 4.12 of this standard is 0,7. Following paragraph 4.12 of this standard, the tests have been performed according to the OIML International Recommendation, OIML R 60 (1991).

Issued to: SENSOCAR, S.A.
 Carrer Géminis, núm.77, nau 2, P.I.Can Parellada
 E-08228 TERRASSA SPAIN

In respect of: The model of a load cell, tested as part of a non-automatic weighing instrument.
 Manufacturer: SENSOCAR, S.A.
 Type: PL-50.
 This second addition complements the test certificate number E-00.02.C05, relating to addition of a new maximum capacities.

Characteristics:

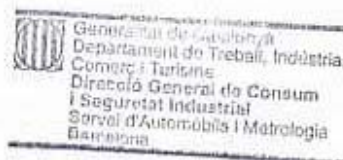
Classification		C4↓	C6↓	--
Maximum number of LC verification intervals n_{LC}		4000	6000	--
Constructive material		Stainless steel	Steel	--
Maximum capacity E_{max}		50 75 100 150	200 250	kg
Ratio minimum LC verification interval $Y = E_{max}/V_{min}$		12000		--
additional marking	temperature limits	rated output	impedance input	minimum dead load
--	-10°C/+40°C	C = 2 mV/V	$R_{LC} = 390 \Omega$	$E_{min} = 0 \text{ kg}$
				safe overload $E_{inf}/E_{max} = 150\%$

The main characteristics are shown in the descriptive annex, which is an integral part of the test certificate and consists of 3 pages. The type is described in the submitted technical documentation, identified with number 09/00. The first addition is described in the submitted technical documentation, identified with number 42/03. The changes covered by this addition are described in the submitted additional technical documentation, identified with number 28/04.

EL DIRECTOR GENERAL D'ENERGIA,
 MINES I SEGURETAT INDUSTRIAL


 Josep Isern i Sitjà

Barcelona, 15 July 2004



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 This test certificate refers only to metrological requirements.
 This test certificate cannot be used without applicant's authorization.

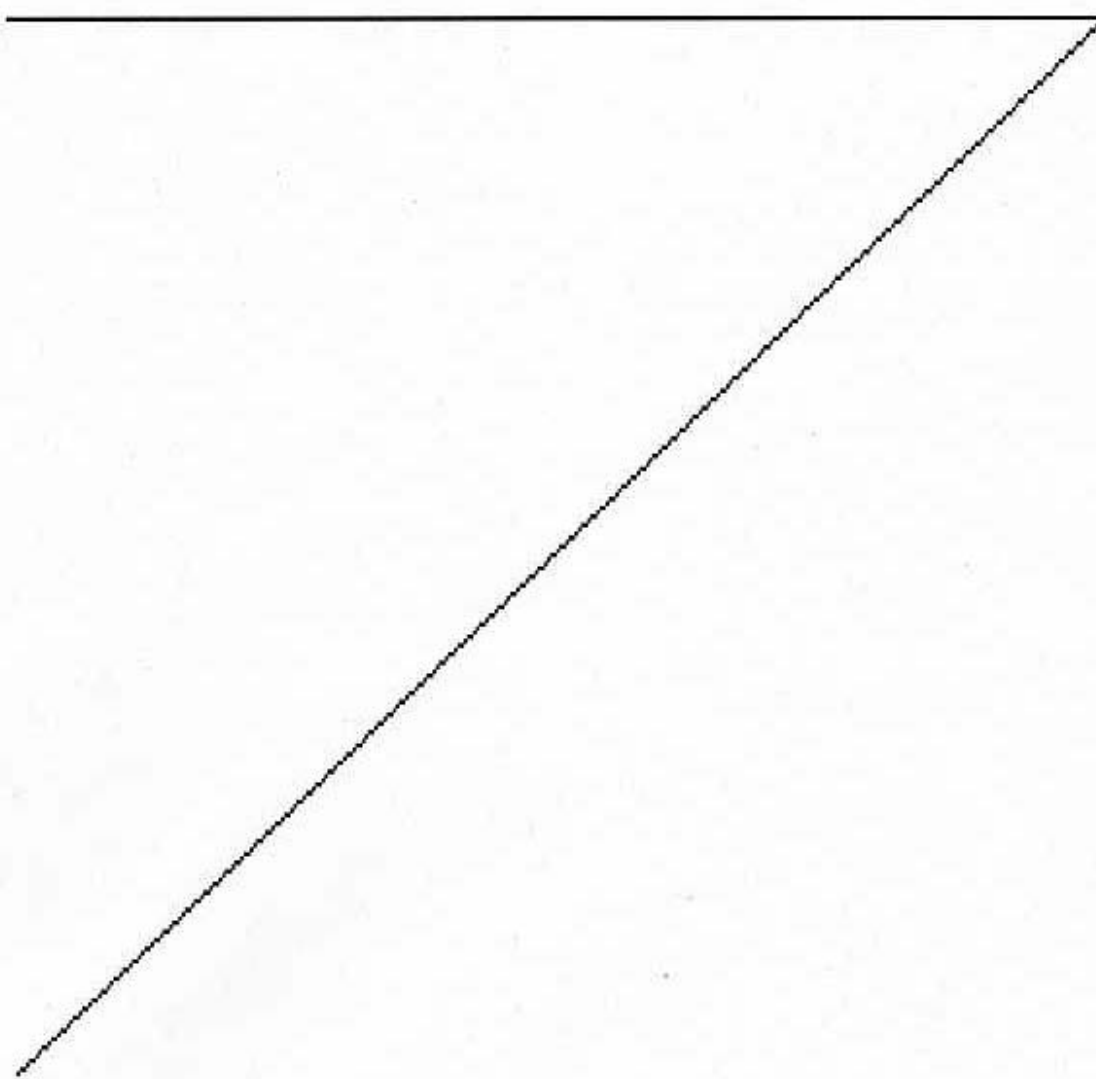
Av. Diagonal, 405 bis
 08008 Barcelona
 Téléfon 93 484 92 95
 Telefax 93 484 94 10



Descriptive annex to second addition to the test certificate number E-00.02.C05.

0.- Index.

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Descriptive annex to second addition to the test certificate number E-00.02.C05.

1.- Name and type of the instrument.

Load cell type PL-50.

Manufactured by:

SENSOCAR, S.A.
Carrer Géminis, núm. 77, nau 2, Polígon Industrial Can Parellada.
E-08228 TERRASSA SPAIN

Using the mark:

SENSOCAR.

2.- Description of the modification.

This annex to second addition to the test certificate number E-00.02.C05 describes a modification of the type PL-50.

This second addition to the test certificate number E-00.02.C05 is relating to addition of a new maximum capacities.

Paragraph 2 of the annex to the certificate of the test certificate number E-00.02.C05 was modified and replaced for paragraph 3.1 of the annex to first addition to the test certificate number E-00.02.C05.

Paragraph 3.1 of the annex to the certificate of the test certificate number E-00.02.C05 was modified and replaced for paragraph 3.2 of the annex to first addition to the test certificate number E-00.02.C05.

Paragraph 3.2 of the annex to the certificate of the test certificate number E-00.02.C05 was modified and replaced for paragraph 3.3 of the annex to first addition to the test certificate number E-00.02.C05.

This second addition to the test certificate number E-00.02.C05 affects paragraph 3.1 of the annex to the certificate of the test certificate number E-00.02.C05 and paragraph 3.2 of the annex to first addition to the test certificate number E-00.02.C05.

3.- Text after modification.

Paragraph 3.1 of the annex to the certificate of the test certificate number E-00.02.C05 and paragraph 3.2 of the annex to first addition to the test certificate number E-00.02.C05 are modified and replaced by paragraph 3.1 of this descriptive annex.



Descriptive annex to second addition to the test certificate number E-00.02.C05.

3.1.- Metrological characteristics.

Load cell type PL-50 has the following metrological characteristics and information for compatibility of modules:

Classification		C4↓		C6↓		--		
Additional marking		---				--		
Maximum number of LC verification intervals	n_{LC}	4000		6000		--		
Constructive material		Stainless steel		Steel				
Maximum capacity	E_{max}	50	75	100	150	200	250	kg
Minimum dead load, relative	E_{min}/E_{max}	0					%	
Ratio of minimum LC verification interval	$Y = E_{max}/v_{min}$	12000					--	
Minimum dead load output return	$Z = E_{max}/2DR$	6000					--	
Rated output	C	2					mVV	
Input impedance	R_{LC}	390					Ω	
Minimum limit temperature rating	T_{min}	-10					°C	
Maximum limit temperature rating	T_{max}	+40					°C	
Safe overload	E_{lim}/E_{max}	150					%	
Fraction maximum permissible error	p_{LC}	0,7					--	

Load cell type PL-50 can have other maximum capacities from 50 kg to 250 kg, respecting always its metrological and constructive characteristics, according to OIML R60.

Another characteristics are:

Constructive material	Steel or stainless steel	
Tolerance of nominal sensitivity	$\pm 0,1$	mVV
Tolerance of input impedance	± 5	Ω