



TEST CERTIFICATE

Number : CEM-CY-01/0025-5.2 (Rev. 4)

Issued to: SENSOCAR, S.A.
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08228 Terrassa - Barcelona - ESPAÑA

In accordance with: Paragraph 8.1 of the European Standard on Metrological aspects of non-automatic weighing instruments EN 45501:1992 / AC: 1993 and WELMEC Guide 2.1. The applied error fraction p_1 , with reference to paragraph 3.5.4 of this standard is 0,5.

Instrument: The model of an indicator for industrial application, electronic, self indicating, single and multiple scale interval, not to be used for direct sales to the public, tested as part of a non-automatic weighing instrument class III and III .

Manufacturer: SENSOCAR, S.A.

Trademark/Type: SENSOCAR, S.A. / SC

Features:	Maximum number of verification scale intervals (n)	$n \leq 10.000$ ($n_1 \leq 3.000$) for NAWI class III $n \leq 1.000$ for NAWI class III
	Minimum input-voltage per verification scale interval	1 $\mu\text{V}/e$
	Measuring range voltaje	8 mV - 24 mV
	Impedance range	40 Ω to 2.000 Ω

CEM code: --

Authorized signature
Weighing Laboratory

Head of Operations Division

This certificate does not confer to the equipment attributes beyond those shown by the data contained herein. Results refer to the dates and conditions in which measurements were carried out and guarantee traceability to national standards.

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ANNEX

1. TECHNICAL SPECIFICATIONS

1.1 Technical Procedure

The procedure (CEM-PT-5.2-04) used to assess the metrological data of the instrument contained in this certificate is based on European Standard UNE EN 45501:1992 (AC: 1993) on the metrological aspects of non-automatic operation weighing instruments, and on Guide n° 2.1 of WELMEC.

The applicable tests contemplated in Annexes A, B and C of the said Standard and in the WELMEC Guide are as follows:

- Administrative and technical examination (A.1, A.2 and A.3)
- Weighing performance (A.4.4)
- Tare (weighing test) (A.4.6.1)
- Repeatability(A.4.10)
- Temperature effect on sensitivity (A.5.3.1) with minimum weighing range and impedance of 40Ω (20, 40, -10, 5, 20 °C).
- Temperature effect on no-load indication (A.5.3.2) with minimum weighing range and impedance of 40Ω (20, 40, -10, 5, 20 °C).
- Damp heat test (B.2.2)
- Warm-up time (A.5.2)
- Power voltage variations (A.5.4)
- Short time power reduction (B.3.1)
- Bursts in I/O circuits and lines of communications (B.3.2)
- Electrostatic discharges (B.3.3)
- Electromagnetic susceptibility (B.3.4 y C)
- Span stability (B.4)
- Cable length between the indicator and the load cell (WELMEC 2.1.; Annex 5)

1.2 Location of Instrument

The tests were carried out at the facilities of the Centro Español de Metrología.



2. GENERAL INSTRUMENT INFORMATION

2.1 Type and model

Weight indicator model SC for industrial use, with $n \leq 10.000$ ($n_1 \leq 3.000$) for NAWI accuracy class III , and $n \leq 1.000$ for NAWI accuracy class IIII , with the following options:

Option A (Load cells with analogue output)	- Cell power supply: 8 V DC - External power supply: 220 V AC
Option B	- Cell power supply: 8 V DC - Adaptor at 220 V AC/ 12 V DC and internal battery at 12 V DC
Option D (cells compatible with digital output)	- Analogue part incorporated into the load cell. - Cell power supply: 8 V DC - External power supply: 220 V AC
Option I	- Custom thermal printer, model Plus_T2B

The SC visor contemplates the following versions:

- Version SC-MIN: Parallelepiped enclosure and options SC-MIN/A, SC-MIN/B and SC-MIN/D.
- Version SC-01: Parallelepiped enclosure and options SC-01/A, SC-01/B and SC-01/D.
- Version SC-04: Trapezoidal enclosure and options SC-04/A and SC-04/D.
- Version SC-10: Parallelepiped enclosure, 16 keyboard and options SC-10/A, SC-10/B and SC-10/D.
- Version SC-12: Parallelepiped enclosure, 16 keyboard and options SC-12/A, SC-12/B and SC-12/D.
- Version SC-14: Parallelepiped enclosure, 16 keyboard and options SC-14/A, and SC-14/D.
- Version SC-20: Trapezoidal enclosure, alphanumeric LCD display and 12 or 16 keyboard. Includes options SC-20/A, SC-20/B, SC-20/D and SC-20/I.

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All these versions can include an LED display or an LCD screen.

2.2 Description

The SC model is made up of a stainless steel enclosure or painted iron plate, divided into two parts: front panel and rear panel. The two panels are attached to each other with screws. Here we find the orifices for the indicator display, the keyboard and the visor input connections (power supply, communication port, load cell, fuse and ON/OFF circuit breaker)

The power supply, control logics and analogue section are located in the interior. In the case of battery supply, the power supply is not mounted since it is external. Likewise, the analogue part is not mounted when working with digital cells.

Externally, the visor is made up as follows:

Front part	<ul style="list-style-type: none"> - LED or LCD weight display of 6 digits of 7 segments. - 7 LEDs or LCDs indicating stable weight, zero, gross/net, tare, tare block, out of service use and battery. - 4 or 5 function keys membrane keyboard - Membrane keyboard of 12, 16 or 20 numerical keys (SC-10 to 20) - Alphanumeric display (SC-20) - "Custom" thermal printer, model "Plus T2B" (SC-20/I).
Rear part	<ul style="list-style-type: none"> - Data plate and seals) - Place for EC marking. - RS-232 serial channel connector . - Electricity grid connector. - Circuit breaker ON/OFF (SC-20). - Fuse (SC-01, SC-04, SC-20).
Left-right part	<ul style="list-style-type: none"> - Orifices for support feet (except SC-14 and SC-20) - U-shaped support (except SC-14 and SC-20)

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