



CEM-CY-01/
0025-5.2



R76/2006-
ES1-16.01



Main features

- **LED/LCD** weight indicator for truck scales and axles weighing.
- Approved according to **OIML R76 and EN 45501** (Class III – 10000 divisions).
- Finished in **ABS / Stainless steel** housing.
- Supports both **analog** and **digital** load cells for maximum system flexibility.
- **Stable and Accurate:** Features advanced weight processing with adaptive filters to ensure stable readings in demanding environments.
- Extra isolation protection – IP67 *Not certified* (optional).
- **Autonomous Operation:** internal rechargeable battery allows for operation during power outages or in mobile applications (optional)

CEM-CY-01/
0025-5.2R76/2006-
ES1-16.01

Technical specification

Keyboard		On/Off, Tare, Zero and Print keys
Material	-	Stainless Steel, ABS
Homologation	-	OIML R76//EN 45501 10.000e Clase III
Display	-	LED / LCD
Temperature range	°C	-10 to 40
A/D Converter	-	24bits (1.000.000 div)
Min. input voltage per verification scale Interval	µV	0,6
Voltage of the measuring rangemin	mV	5-15
Load cell excitation voltage	V	5
Minimum load cell impedance	Ω	40
Max. signal voltage for dead load	mV	10
Electromagnetic susceptibility	V/m	10
Power supply	VAC	80-264
Power consumption	W	LED: 1,2 ; LCD: 0,9
Alibi memory (DSD)		0/1
Isolation protection	-	IP67 (available)

Communications

RS232	1/2	Flexible connectivity to peripherals like serial printers, external displays, or other RS232-enabled devices for data output and control).
RS485	0/1	Enabling robust, long-distance serial communication, ideal for connecting to multiple devices in a network or interfacing with industrial automation systems.
USB	Optional	Provides a simple connection to a PC for data transfer.
Ethernet	Optional	Provides a simple connection by TCP/IP.

Protocols

- **Sensoc (ASCII Protocol):** for efficient data exchange with compatible devices.
- **Modbus RTU/TCP:** for seamless integration with a wide range of PLCs and industrial controllers (Modbus TCP is only available with the optional Ethernet port).



CEM-CY-01/
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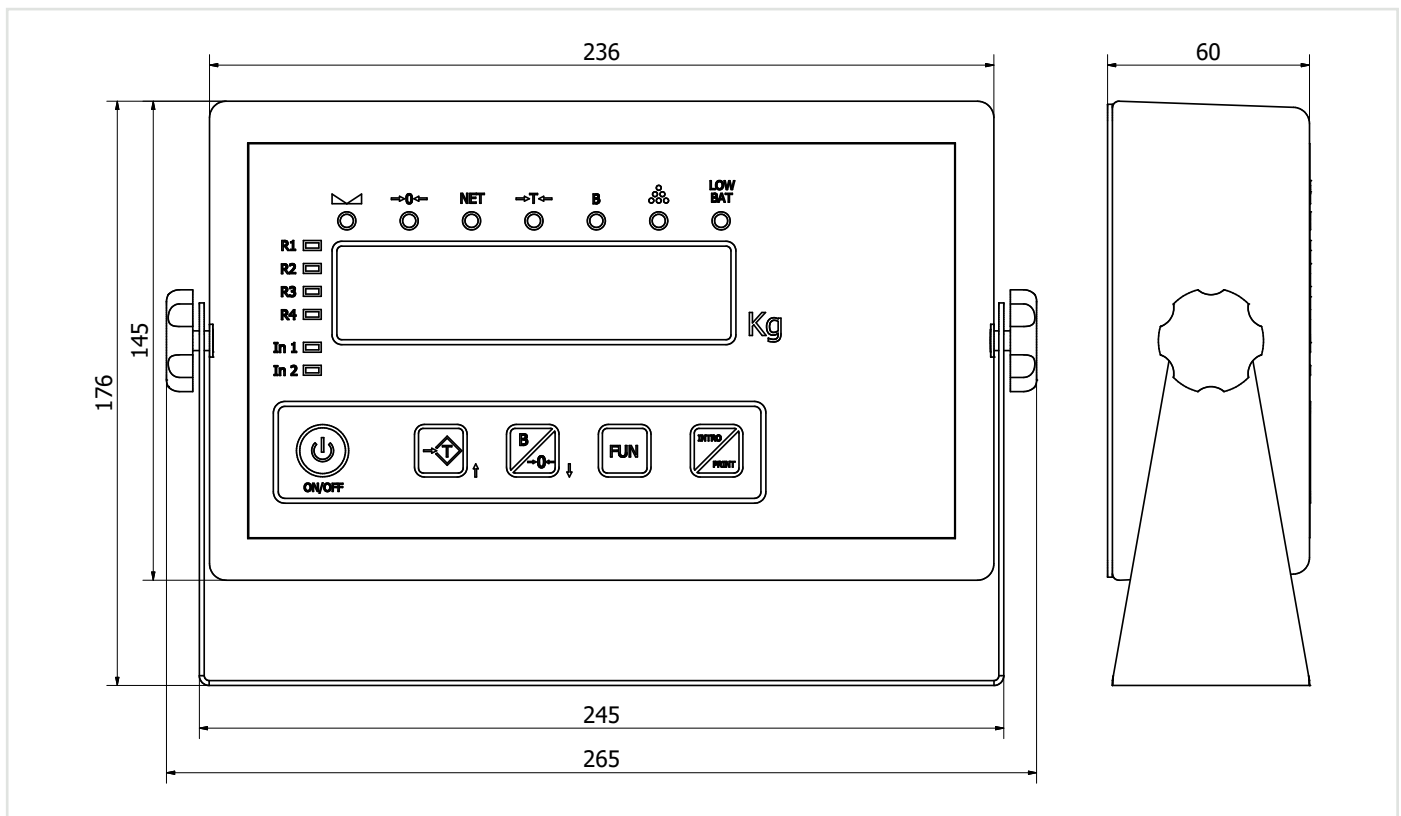


R76/2006-
ES1-16.01

Software

- **Processor:** high-performance 32-bit microprocessor.
- **Calibration:** standard calibration and self-calibrating functions.
- **Linearization:** advanced load cell linearization with up to 16 points for superior accuracy.
- **Multi-Range:** programmable and flexible multi-range functionality.
- **Core Functions:** weight, Tare, Accumulation, Manual Tare.
- **Additional Modes:** piece Counting, Dynamic/Animal Weighing.
- **Data Management:** communicate with a PC for data dump and configuration.
- **Printing:** fully configurable ticket and label printing formats.
- **Firmware:** firmware can be easily updated via the serial port.
- **Customization:** »tailor-made software« development is available to meet specific customer requirements.
- **Multi-Language:** supports 6 languages: Spanish, English, Portuguese, French, Italian, and German.

Drawings



CEM-CY-01/
0025-5.2R76/2006-
ES1-16.01

Versions

Article code	INOX	ABS	LCD	LED	CEL.ANA.	CEL.DIG. MODBUS	INT. PRINTER
SCA1-D-P/LED-485		X		X		X	
SCA1-P/LED		X		X	X		
SCA1-P/LCD		X	X		X		
SCA1-D-P/LCD-485		X	X			X	
SCA1-I/LCD	X		X		X		
SCA1-I/LED	X			X	X		
SCA1-D-I/LED-485	X			X		X	

Extra options

Description	Sensocar reference
Internal battery (42 to 50 hours)	AD_SCA/BAT
Additional IP67 (only INOX)	AD_SCA1-I/IP67
12V external power supply	AD_SCA/AEXT
Additional cable gland output	AD_SCA1/P
Additional Ethernet for SC-A1 indicators (only INOX)	AD_SCA1/ETH