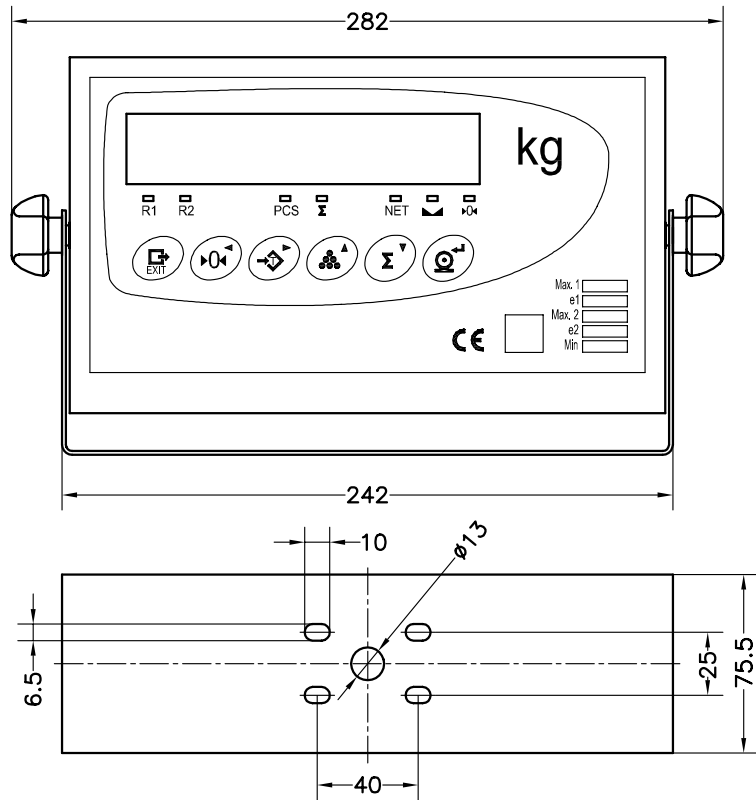
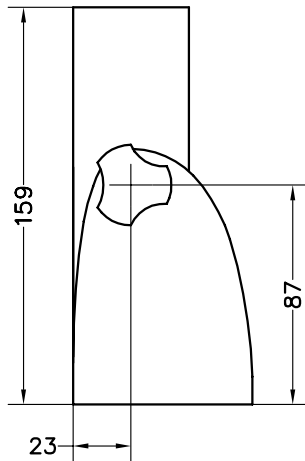


WEIGHING INDICATOR



The SMART is an approved Electronic Weighing Indicator valid for all types of commercial transactions. Finished in ABS or Stainless Steel housing with IP65 and ATEX options. Includes adjustable mounting bracket made of Stainless Steel. It's available in different versions to suit the needs of each application.

- **OIML R76 & EN 45501 Approved**, single or Multi-range, 6000 div at 0,6 μ V/div.
- **Display** 7 digit 20mm LED high bright.
- **High resolution:** 24 bits A/D, 16.000.000 internal divisions; 100.000 external divisions.
- **Friendly configuration and calibration menu.**
- **Calibration by Masses or in mV/V**, allowing the start-up without calibration masses entering the load cell capacity and sensitivity in mV/V.
- **Calibration sealing** by software or mechanically
- **Power up to 4 load cells** (350 Ω) or up to 8 load cells (700 Ω).
- **RS-232 serial port** for PC, printer or remote display connection.
- Mounting: **bench/wall mounting kit.**
- **External Power supply** 230 V AC 50/60 Hz.
- **High electromagnetic interference protection** using filters, ferrites and shields.
- **Multi-range:** for a dual range and dual division size.
- **Standard Ticket or customized from PC.**
- **Linearity correction.**
- **Optional:** (see the versions table)
 - Available **ATEX** version Zone 2 (gas) and 21-22 (dust).
 - 4 digital inputs
 - 4 digital outputs
 - Analogue output configurable at 0-5 V, 0-10 V, 0-20 mA, 4-20 mA
 - External power supply of 12 V DC.
 - Additional communication RS-232 and RS-485
- **Applications:**
 - Weight Indicator for industrial scales, platform scales, pallet-scales, truck scales.
 - Scales in food, chemical and pharma industries, with hermetic Stainless Steel version IP65.
 - Weighing Indicator for Tanks and Silos.
 - Piece counting and Totalizations (accumulation of weights).
 - Configurable as a weight indicator or as a remote display of other weight indicator.
 - Animal weighing / Check-weigher.



Transport weight:
 SMART: 2.1 kg
 SMART ABS: 1.5 kg
 SMART ATEX: 2.5 kg

Dimensions in mm.

TECHNICAL SPECIFICATIONS

Load Cell Connection:

Full scale input signal	±3 mV/V
Input impedance	200 MΩ (typical)
Internal resolution	Converter AD 24 bits, 16700000 counts (± 8350000)
Measurement rate	50 readings per second
Linearity error	≤ 0.01 % of measurement level
Zero stability	150 nV/°C max.
Span stability	3.5 ppm/°C max.
Excitation voltage	6.1 ± 0.5 V DC
Transducer minimum resistance	85 Ω (4 load cells x 350 Ω, 8 load cells x 700 Ω)
Transducer maximum resistance	1000 kΩ
Wire length	400 m/mm ² máx. (6 wires) 30 m/mm ² máx. (4 wires)
Input overload	± 12 V

Display:

Type	7 digit LED 20 mm
Keyboard	6 keys

Serial Communications:

Port Tx/Rx	Bi-directional RS-232C
Transmission rates	19200, 9600, 4800, 2400 y 1200 bauds
Number of bits and parity	8 bits no parity, 7 bits even parity and 7 bits odd parity

Power:

Power supply	230 ±10% V AC, 50/60 Hz, 6 W
Fuse	250 V, 100 mA slow fusion
Alimentation DC (optional for IP65)	7.5 V ... 15 V DC, nominal 12 V DC. External fuse 500 mA

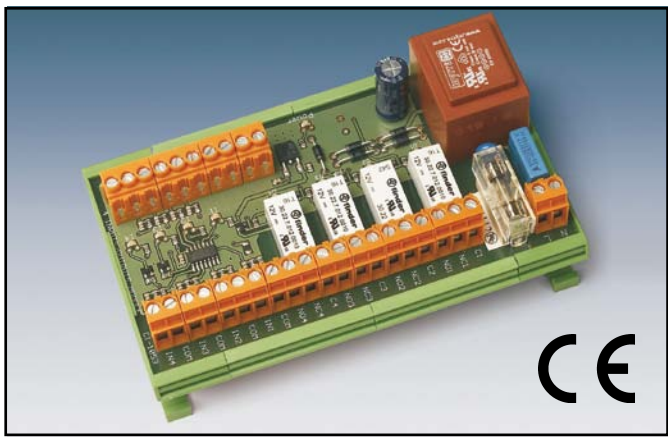
Environmental and Mechanical:

Operating temperature	-10 °C to 40 °C
Storage temperature	-25 °C to 70 °C
Size	282 x 158 x 71 mm
Mounting	Bench/wall mounting kit

VERSIONS

INDICATOR	SMART	SMART IP65	SMART TIME	SMART IP65 TIME	SMART MULTI 1	SMART IP65 MULTI 1	SMART MULTI 2	SMART IP65 MULTI 2	SMART ABS
Reference	89350	89351	89352	89353	89354	89355	89356	89357	89358
Enclosure material	Inox	Inox	Inox	Inox	Inox	Inox	Inox	Inox	ABS
IP protection	IP40	IP65	IP40	IP65	IP40	IP65	IP40	IP65	IP40
External connector	✓		✓		✓		✓		✓
Cable gland IP 65 connector		✓		✓		✓		✓	
RS-232 Serial port	1	2	1	2	2	2	2	2	1
RS-485 Serial port					1	1			
RS-485 Serial port Opto-isolated							1	1	
Digital input/output					4/4	4/4	4/4	4/4	
Output 0-5V, 0-10V, 0-20mA, 4-20mA							✓	✓	
Power supply 230 V AC	✓	✓	✓	✓	✓	✓	✓	✓	✓
Power supply 12 V DC		✓		✓		✓		✓	
Clock function			✓	✓	✓	✓	✓	✓	
ATEX version Zone 2, 21, 22 Ref:		89351EX		89353EX		89355EX		89357EX	

ACC. 4 OUTPUT RELAYS / 4 INPUTS FOR SMART



This module is a conversion unit that directly connects the logical inputs and outputs of the Smart indicator and provides the user with 4 contact inputs and 4 relay outputs as well as the necessary power supply.

POWER	Input voltage	230 V AC 50/60 Hz
	Fuse	250 V, 100 mA
	Consumption	2.4 W
OPERATING CONDITIONS	Operating temperature Range	25 °C / +50 °C
	Storage Temperature limits	-25 °C / +70 °C
INPUTS AND OUTPUTS	Inputs: Maximum Voltage	24 V DC
	Relay Outputs	125 V AC / 1A 30 V DC / 1A
MECHANICAL CHARACTERISTICS	Size	136 x 82 x 57 mm
	Weight	0.2 kg

