Operating principle (standard version)

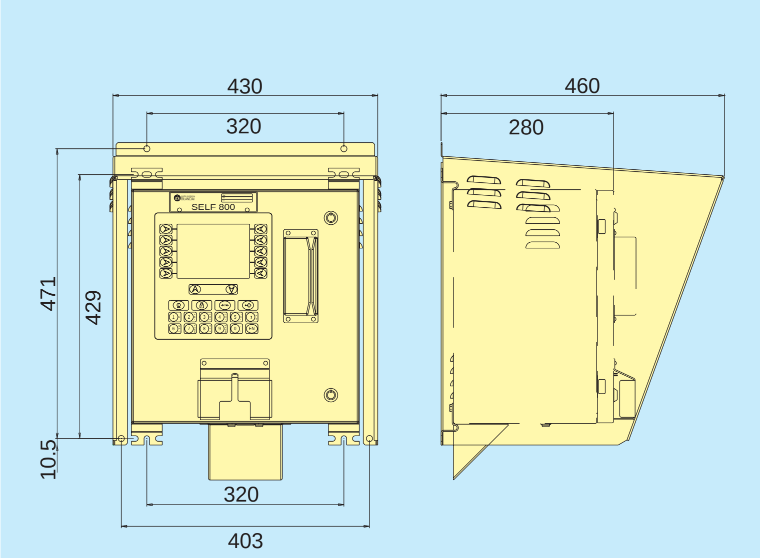
The weighbridge is equipped with a SELF 800 management indicator that is able to control a second SELF 800 repeater on another indicator if required, thus allowing weighing to be performed in both directions of travel. The driver, in possession of a badge (or a transponder "key" if the SELF 800 units are equipped with a key reader in place of the badge reader) performs the first weighing cycle using the inbound SELF 800 unit. At the end of the loading or unloading operation the driver executes a second weighing cycle with the outbound SELF 800 indicator, which issues an approved weight receipt showing the code of the BADGE (or key), the time and date, the sequential weighing operation number, and the relative weight data: 1st weight, 2nd weight, and net weight. If the badge or key code is associated with a description (e.g. HAULIER'S NAME and/or VEHICLE REGISTRATION PLATE) this will be printed with the rest of the data on the weighing operation receipt. The main indicator internally totalises weight data separately for each badge code. The I/Os of SELF 800 can be used to control barriers or traffic lights and to read "correct positioning" photocells.

Function with use of badges

Operating principle ("repeater" version)

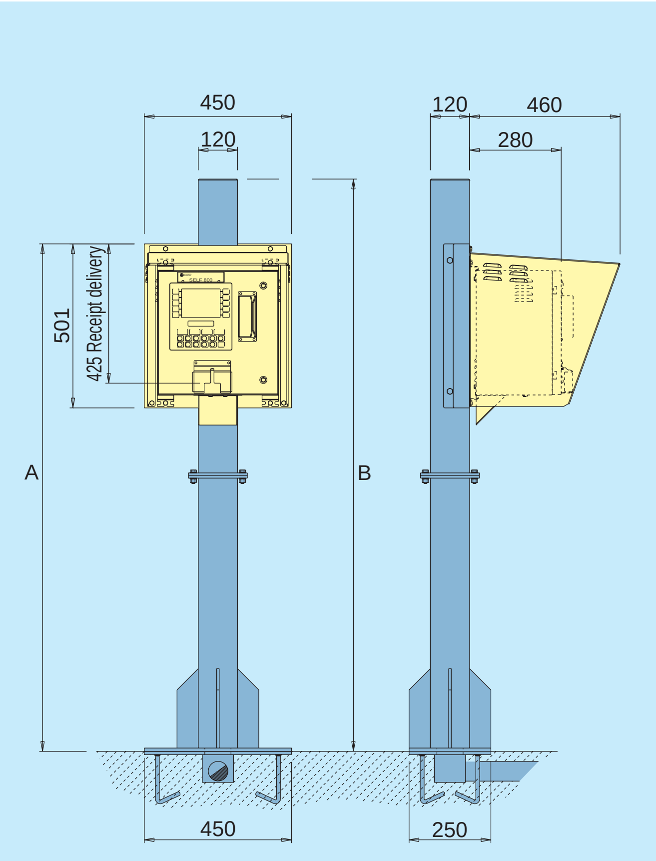
A specially designed version provides access to the Self 800 "repeater", which can be connected to a PC to create a flexible and reliable operator interface. With specific software drivers or directly with serial commands, the graphic display, keyboard, badge reader, printer, relay inputs and outputs and all the peripheral devices of the Self 800 unit can be controlled from a PC, exploiting the characteristics of compatibility with outdoor conditions, adverse weather, and high temperatures.
In addition, the "repeater" version can be equipped with converter card for signals transmitted from the weighbridge, thus dispensing with the need for any other type of weighing instrument.

Preset customer selection function



Model	Dimensions (mm)				
	A *				B
WEIGHING WITH USER ON LORRY	2305	2505	2705	2905	2903
WEIGHING WITH USER ON GROUND	1600	1800	-	-	1798

* Adjustable column height



Accessories

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In line with our aim of continuous product improvement, we reserve the right to make modifications at any time and without prior notice to the products as illustrated in the above photographs.

Self 800 series Indicator

SELF 800 model

SOCIETA' COOPERATIVA BILANCIAI

General characteristics

The indicator is equipped with all the necessary features to guarantee the maximum reliability even in the harshest conditions: when exposed to very hot weather, at sub-zero temperatures, and adverse climatic conditions, the instrument continues to operate correctly thanks to a tried and tested thermoregulation system. The indicator is designed to prevent the formation of internal condensation and critical temperatures in terms of operating efficiency.
Optional support posts make it possible to install the unit for use from the ground (standing operator) or directly from the vehicle window.

Versions

- SELF 800 ANALOGUE for connection to a scale with analogue load cells up to a maximum of twelve 350 Ω cells
- SELF 800 DIGITAL for connection to model CPD digital load cells up to a maximum of 12 cells
- SELF 800 REPEATER this device is not designed for connection to a weighing platform, receiving weight information instead from another indicator by means of a serial connection.

- Each of the above versions can be configured:
  - With data management (master): weighing indicator network manager version, containing archives.
  - Without data management (slave): to be connected in a network of indicators.
  All archive data are requested from the Master indicator responsible for management of the network. The Master indicator can be a PC.

Technical specifications (standard version)

- Power supply: 230 VAC, 50/60 Hz, 100W
- Operating temperature: -10°C/+40°C
- Storage temperature: -20°C/+70°C
- Analogue load cell power supply: 10VDC; min. 29 ohm
- Maximum load cell input power 23mV
- Connection of 6-wire load cells with "sense"
- Maximum displayed resolution: 10,000 div OIML (for approved version), 60,000 div. (for internal use)
- Maximum measuring frequency: 100 conv./sec
- 8Hz analogue filter; automatically variable digital filter
- Programmable transmission rate up to 115,200 baud
- Automatic recognition of entered options
- Calibration with the possibility of using a "linear configuration system" (max 5 points)
- Clock, permanent calendar
- Cold cathode backlit display, dimensions 115x86 mm with automatic contrast control
- Alphanumeric polyester keypad
- Relative humidity: max 85% non-condensing
- Complies with Directives 73/23 EEC (Low Voltage) and 89/336 EEC (Electromagnetic Compatibility)
- Electromagnetic immunity in compliance with EN 45501; immune to irradiated electromagnetic fields of up to 10 V/m

Standard keypad

Complete alphanumeric keyboard

Standard equipment

- 1 EIA RS 232 serial output
- 2 EIA RS 232/422/485 serial outputs (selectable)
- 2 opto-isolated INPUTS
- 2 relay OUTPUTS max. 110 V, 200 mA

Optionals

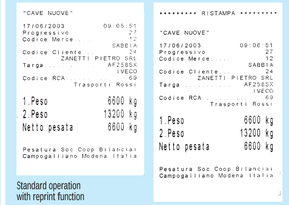
- MPP permanent weights memory
- 3 expansion slots for inserting: 4 IN/ 4 OUT card (max 110 V, 200 mA)
  - 4 IN/ 12 OUT card (max 24 V, 100 mA)
  - EIARS 232/422 serial interface card (selectable)
  - 24V BCD card
  - TTL 5V BCD card
  - TTL 5V BCD card (multi-point connection) (up to 3 cards of the same type can be used together)
- Power supply:110 V
- Ethernet expansion card
- Thermal printer for issue of receipts
- Optical barcode reader
- Key-type transponder reader
- Badge-type transponder reader
- Complete alphanumeric keyboard
- Support post (high version)
- Support post (low version)

SELF 800 model

Functional characteristics (standard version)

- Weight display
- Language selection for messages (6 languages)
- Weighing system autotest operation
- Reset via key, serial channel or associated input
- Transmission of weight value and accessory data
- Facility to perform totalisation for a code or preselected function
- Connection to all printer models supplied by Coop Bilanciai
- Standard single or double weighing operation for weighbridges:
  - Recall management for first weights by self-generated code or vehicle registration plate number
  - Storage and printout of first weighing cycle with associated data (goods code, customer code, etc.)
  - Facility to use a first known weights archive
  - Management of 6 character goods code with associated 20 character alphanumeric description
  - Management of customer code with associated 20 character alphanumeric description
  - Management of registration plate number with associated description of haulier (20 characters)
  - Totalisation, by goods code, customer code, registration plate or combination of codes, of weighing data and number of weighing cycles
  - Easy access to code and known weight archives by means of icons and guided procedures
  - Facility for connection between indicators to carry out the first and second weighing cycles on different weighing stations
  - Management of access control to weighbridges via I/Os for traffic signals or barriers
  - Facility to retrieve all necessary data by means of a code read by bar code or transponder
  - Software for shipping document management (optional)
  - Software for "daily journal sheet" totalisation

Operation without using badges



Standard operation with reprint function

Printing examples

SELF 800 model

Operation without using badges

The incoming vehicle drives onto the weighbridge and the SELF 800 display presents the driver with the instructions for printing with the relevant button and collection of the weighing receipt.
Additional buttons on the SELF 800 indicator can be enabled for the input of additional data (e.g.: vehicle registration plate number, product type, etc.).
The SELF 800 indicator issues one or two receipts (selection) showing the weight data and a bar code, which is required for execution of the outgoing weighing cycle; the receipt will show the following details:

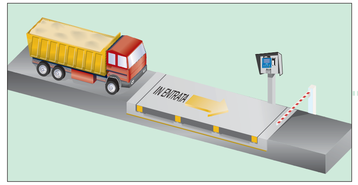
- date, time, sequential number
- self-generated data retrieval code
- goods code (if utilised) and relative alphanumeric description
- customer code with relative description
- vehicle registration plate number plus description, if available
- weight measured
- bar code for retrieval of weighing cycle in EAN8 format showing data retrieval code

Preset registration plate number selection function

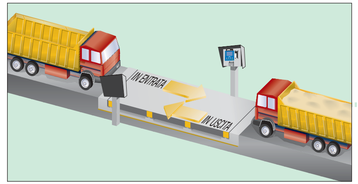
The vehicle proceeds to the goods loading/unloading station.

At the exit the driver uses the bar code on the inbound receipt, swiping it through the slot on the badge reader thereby retrieving the inbound weight and calculating the outbound weight; ancillary data can be input at this point rather than during the inbound weighing operation.
Once a receipt has been printed showing, in addition to the above specified data also the second weight and the net weight, the operations are concluded.

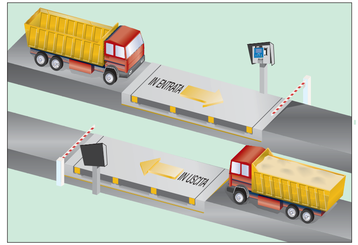
SELF 800model



Unmanned weighing. The vehicle enters and drives onto the weighbridge, always in the same direction.



The vehicle uses the weighbridge in both directions of travel; the inbound and outbound weighing operations are performed, without operator.



The vehicle uses the inbound and outbound weighbridges and a calculation of the net weight is obtained thanks to the connection between the Self 800 units.

A D800 repeater indicator or a PC connected to the SELF800 units provides the facility for management of archives and data directly from the office.