

3590EXT "ENTERPRISE": WEIGHT INDICATOR FOR INDUSTRIAL APPLICATIONS, in STAINLESS STEEL IP68



3590EXT: Stainless steel weight indicator



SOFTWARE WINSCD



WinScd is the solution that allows to plan and control the production of the recipes guiding the operator through the dosage operations of components reducing the possibility of making mistakes.



discover
WinScd

High performance digital weight indicator, with programmable inputs and outputs, 3 serial ports, transmission protocols for data communication, completely configurable printouts, integrated alibi memory and port for connection to barcode/badge reader. The wide range of connectable accessories and printers guarantees the maximum interfaceability and versatility. CE-M approvable (OIML R-76 / EN 45501).

MAIN FEATURES

- 25-key alphanumeric waterproof keyboard.
- Highly efficient red led display with 6 digits 15mm high.
- **Backlit LCD graphic 25x100mm display.**
- Synoptic bar graph with 16 bright LEDs showing the active functions.
- Easy to clean **STAINLESS STEEL waterproof IP68** enclosure; resistant to harsh and corrosive environments.
- Dimensions: 264x115x174 mm.
- Suitable for use on the table, column, or wall.
- Real time clock and permanent data storage.
- Fitted alibi memory, integrated on the motherboard.
- **Functions available with DINITOOLS utility**
 - Configuration, calibration, data entry and print formatting.
 - Saving and filing of all the information on PC.
 - Complete retrieval of the data saved for quick substitution.
 - Instrument calibration with numeric values.
- **Easy Excel data entry:** the indicator communicates directly with the active Windows application (electronic spreadsheet, word processor, database).
- Selection of the programme language directly in the set-up.
- 24-bit A/D converter, 4 channels, up to 3200 conv./sec. and up to 8 signal linearisation points.
- 4 independent analogue channels (up to 2 in the E-AF03 version, 1 in the E-AF09 version) for reading of the weight.
- Connection with up to 16 analogue load cells of 350 Ohm (45 load cells of 1000 Ohm) **and with the main digital load cells available on the market (mod. E-AF03).**
- Up to 10.000e OIML or 3 x 3000e @ 0,3 µV/d CE-M legal for trade.
- Up to 1.000.000 displayable divisions for internal factory use, with internal resolution up to 3.000.000 points.
- Connectable to printers and labellers with the command drivers.
- 110-240 Vac power supply; built-in rechargeable battery for use in prolonged absence of the power mains (not available on the "IO" versions, with 16 outputs and 8 inputs).

I/O SECTION

- Two RS232 serial ports, for connection to printer, radio module, PC or PLC, badge reader or remote scale, with management of the CTS signal.
- One RS232/RS485 serial port, for connection to printer, PC, PLC, or digital load cells.
- Fitted keyboard emulation input, for barcode/badge readers or external PC keyboard, through cable with mini DIN connector (optional).
- 4 optoisolated outputs (16 in the IO versions).

OPTIONS

- Attached thermal printer option box
- Attached control light option box
- Attached memory data printer option box
- Attached memory data printer and printer option box
- External radio modem 868MHz option box
- USB / Ethernet / Wi-Fi / Bluetooth interface
- Analogue output with D/A converter at 16 bit, 0-10Vdc, 0-20mA, 4-20mA (only for IO versions)
- Infrared remote control or 433MHz radiofrequency remote control, **with customizable functions of keys**

- 2 optoisolated inputs (8 in the IO versions).
- Infrared ray input for optional remote control.



- External Profibus interface (optional), for automation management (depending on the software program).



- Optional Bluetooth connection, for quick wireless programming of the activities and the formulas, through PC or PDA.

Available versions

Code	Description
3590EXT01BC	Weight indicator in the "AF01" version for totalization and dosage systems, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display.
3590EXT01BCIO	Weight indicator in the "AF01" version for totalization and dosage systems, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display. Fitted with 16 outputs and 8 inputs.
3590EXT02BC	Weight indicator in the "AF02" version for quantity (pieces, litres, etc.) counting systems, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display.
3590EXT02BCIO	Weight indicator in the "AF02" version for quantity (pieces, litres, etc.) counting systems, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display. Fitted with 16 outputs and 8 inputs.
3590EXT03BC	Weight indicator in the "AF03" version for vehicle weighing systems, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display.
3590EXT04BC	Weight indicator in the "AF04" version for statistical check of prepackaged goods, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display.
3590EXT05BC	Weight indicator in the "AF05" version for industrial price computing, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display.
3590EXT08BC	Weight indicator in the "AF08" version for wheel weighing systems with 4 platforms or axle weighing systems with 2 platforms, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display.
3590EXT09BC	Weight indicator in the "AF09" version for axle weighing systems, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display.
3590EXTBATCH1BC	Weight indicator in the "BATCH1" version for single product dosage systems in loading or unloading, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display.
3590EXTBATCH1BCIO	Weight indicator in the "BATCH1" version for single product dosage systems in loading or unloading, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display, 16 outputs and 8 inputs.
3590EXTBATCHBCIO	Weight indicator in the "BATCH" version for multi product dosage in loading and unloading, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display. Fitted with 16 outputs and 8 inputs.
3590EXTCHECKBCIO	Weight indicator in the "CHECK" version for +/- tolerance control systems on weighing belt, available both static and dynamic, with stainless steel IP68 case, 25-key keypad, LED display and backlit graphic LCD display. Fitted with 16 outputs and 8 inputs.
3590EXTBELTBCIO	Weight indicator in the BELT version for control and flow regulation on conveyor belt, with IP68 stainless steel case, 25-key keypad and backlit graphic LCD display. Fitted with 16 outputs and 8 inputs.

Options only available at time of order

Code	Description
KCEM	Kit of plates and Welmec form for the approval of the system for legal for trade use, for each provided platform/weighing system, connected to Dini Argeo indicator.
VENT	Air valve for regulating the humidity and the pressure inside the indicator, advised for IP68 applications.
TPRXT	Thermal printer for mounting attached to weight indicator, with IP65 stainless steel case and a cover door for protection from sprays and dust, for harsh or strict hygiene environments, connection cable, power supply from weight indicator. Combinable with stainless steel indicators of the "XT" line.
TPRXTIO	Thermal printer for mounting attached to weight indicator, with IP65 stainless steel case and a cover door for protection from sprays and dust, for harsh or strict hygiene environments, connection cable, power supply from weight indicator. Combinable with weight indicators 3590EXT version "IO".
MMCXT	Memory data printer with memory card for mounting attached to weight indicator. IP65 stainless steel case with a cover door for protection from sprays and dust, for harsh or strict hygiene environments; connection cable and power supply from weight indicator. Combinable with stainless steel indicators of the "XT" line.
TPRMXT	Thermal printer and memory data printer for mounting attached to weight indicator, with IP65 stainless steel case and a cover door for protection from sprays and dust, for harsh or strict hygiene environments, connection cable, memory Card, power supply from weight indicator. Combinable with stainless steel indicators of the "XT" line.
TPRMXTIO	Thermal printer and memory data printer for mounting attached to weight indicator, with IP65 stainless steel case and a cover door for protection from sprays and dust, for harsh or strict hygiene environments, connection cable, memory Card, power supply from weight indicator. Combinable with weight indicators 3590EXT version "IO".
OBTPRI	Thermal printer for mounting attached to weight indicator, with stainless steel case, connection cable, power supply from weight indicator. Combinable with stainless steel indicators.
OBTPRIIO	Thermal printer for mounting attached to weight indicator, with stainless steel case, connection cable, power supply from weight indicator. Combinable with weight indicators 3590EXT version "IO".

OBMCI	Memory Data Printer for mounting attached to weight indicator, with stainless steel case, connection cable, memory card, power supply from weight indicator. Combinable with stainless steel indicators.
OBCLTI	Three way control light for mounting attached to weight indicator, with stainless steel case, connection cable, power supply from weight indicator. Combinable with stainless steel indicators of the "XT" line.
OBRF	External 868 MHz radio frequency module for weight indicator/repeater, with ABS IP65 protecting box and 3 m RS232 connecting cable; power supply from weight indicator/repeater. Max. functioning distance, in appropriate environmental and installation conditions: 70m indoors, 150m outdoors. 50 configurable channels. (OBRF must be combined with another radio module).
OBRFUSB	868 MHz radio frequency module for PC, with PVC box and 1 m USB/mini USB connecting cable; power supply directly from the USB port. Max. functioning distance, in appropriate environmental and installation conditions: 70m indoors, 150m outdoors. 50 configurable channels. (OBRFUSB must be combined with another radio module).
OBRF232	868 MHz radio frequency module for PC, ABS IP65 protecting box, 3 m RS232 connecting cable, complete with DB9 pin connector and external power supply. Max. functioning distance, in appropriate environmental and installation conditions: 70m indoors, 150m outdoors. 50 configurable channels. (OBRF232 must be combined with another radio module).
DAC160	Analogue output with D/A 16 bit converter, configurable from 0 to 10Vdc or from 0 to 20mA; Maximum applicable resistance on the output in current is equal to 350 Ohm; minimum applicable resistance on the output in voltage equal to 10KOhm.
DFTL12	Infrared remote control, with 19 keys, for use up to 8 m of distance.
TLR	433MHz radio frequency remote control, with 6 keys, for use up to 50 m of distance, in appropriate environmental conditions.
PROFI232	External PROFIBUS serial interface in ABS case for panel mounting on DIN bar, with RS232 serial port for connection to CPWE, CPWET and 3590E series indicator, in the versions with management of the Profibus protocol, 9-pin connector for connection to Profibus network.
BLTH	Bluetooth interface integrated with the instrument, for wireless connection to the portable PC or PDA.
WIFIT	WI-FI interface for wireless connection (through access point) to the company computer system.
ETH	Ethernet bidirectional port with speed from 10 to 100 Mbps, TCP, UDP, IP, ARP, ICMP, Ethernet Mac protocols.
ETHCBRJ	Ethernet cable 1,5 m long, for connection between indicator and PC network (necessary for ETH option).
USBMB	USB interface, as an alternative of the standard connector RJ, for quick connection of the indicator to PC.
USBCAMB	USB cable for connection between indicator and PC (to be used with USBMB interface).
LCCBC	Shielded 6-pole cable for connection to weight indicator, made up of 50 cm cable with quick AMP connector and 7-pole male connector (indicator side) + 7-pole female connector to be soldered (platform side).
LCCB5C	Shielded 6-pole cable for connection to weight indicator, made up of 50 cm cable with quick AMP connector and 7-pole male connector (indicator side) + 5 m extension cable with 7-pole female connector (platform side).
LCCB10C	Shielded 6-pole cable for connection to weight indicator, made up of 50 cm cable with quick AMP connector and 7-pole male connector (indicator side) + 10 m extension cable with 7-pole female connector (platform side).
RSCBRJ	RS232/C serial cable l= 1,5 m, for the connection of the weight indicator to PC, made up of 9-pole female connector on PC side and RJ connector on indicator side.
KBCBCE	Cable with MINI DIN connector for connection between 3590E/CPWE weight indicator and PC keyboard or badge/barcode reader.
DCATEXMB4	Declaration of ATEX conformity of the whole, Ex II 2GD IIC T6 T125°C X system, with relative label of whole system, for NON ATEX weight indicator connected to MB4 Dini Argeo zener barriers, connected to mechanical structure with ATEX load cells (each cell must be certified with CCATEX option). ATEX CONFORMITY DECLARATIONS will be supplied in English.
PRNSERV	Custom-made printouts at our premises, for OBTPR../OBMMC/OBMDP/TM295/LX300 printers. NET PRICE
APRNSERV	Custom-made printouts at our premises, for LP542S/SMTPLUS labellers; includes the formatting of up to 4 print formats from those available with the software (print, totalisation, article total, partial total, etc...). NET PRICE. For complex formatings (like the logo insertion, barcode, etc...) the cost will be upon price estimate.
TECSUP	Technical assistance by telephone or at our premises for instrument configuration and printout formatting. NET HOURLY PRICE.

Accessories

Code	Description
CSP38I	Stainless steel support column for the indicators of the DINI ARGEO and SCALE HOUSE range. Dimensions 520 x 527 mm, 1026 mm high, tubular Ø = 38 mm.
CSP38D	Stainless steel support column with painted steel base, for the indicators of the DINI ARGEO and SCALE HOUSE range. Dimensions 350x350 mm, height 750 mm.
STFI	Stainless steel fixing bracket for mounting the weight indicator on wall.
STFR	Stainless steel fixing bracket for mounting the weight indicator on wall, with adjustable inclination.
TM295	Dot matrix impact printer with 1,5 m RS232 cable for connection to weight indicator, external 100/240 Vac power adapter.
LX300	Dot matrix impact printer with 1,5 m RS232 cable for connection to weight indicator, internal 100/240 Vac power adapter.
LP542S	Thermal labeller with peel-off system, with 1,5 m RS232 cable for connection to weight indicator, external 100/240 Vac power adapter.
SMTPLUS	Professional industrial labeller with thermal or direct transfer, with 1,5 m RS232 cable for connection to weight indicator, internal 100/240 Vac power adapter.
SCCD	Bar code scanner connectable to the indicator through the keyboard input (fitted on the "Enterprise" indicators or with IFKBRD option on the other model) and cable with mini DIN connector (optional). Reads the main barcodes such as UPC/EAN, Code 39, Code 39 Full ASCII, Interleave 25, Code 128 and others; reading width of 80 mm; max. reading distance: 20 mm / 20 mil.
PCKBRD	Extended PC keyboard connectable to the indicator through the keyboard input (fitted in the "Enterprise" indicators or

with IFKBRD option on the other model) and cable with mini DIN connector (optional).

UKPLUG Power adapter from Schuko to BS1363.

TECMAN Printed technical manual (free, if downloaded from the web). NET PRICE.

UMAN Printed user manual (free, if downloaded from the web and available in the CD, fitted with the product). NET PRICE.

SOFTWARE VERSIONS	MAIN FEATURES	
AF01	<ul style="list-style-type: none"> - Weight totalization. - Management up to 4 independent scales + remote scale. - 4 levels of totals zeroable and printable in an independent way. Prints list of last 1000 weighs. - Database: 1000 Articles, 200 Clients, 300 Tares for each scale and 15 free texts. 	>> Technical data sheet
AF02	<ul style="list-style-type: none"> - Multi-scale quantity counting function and weight and pieces totalization. - Management up to 4 independent scales + remote scale. - 4 levels of totals zeroable and printable in an independent way. - Database: 1000 Articles, 200 Clients, 300 Tares for each scale and 15 free texts. 	>> Technical data sheet
AF03	<ul style="list-style-type: none"> - Vehicle weighing and Input/Output function (with memory). - Management up to 2 scales with "A+B" function for displaying sum + remote scale. - 6 levels of totals zeroable and printable in an independent way. - Database: 500 Clients, 500 Products, 500 Vehicles and 15 free texts. 	>> Technical data sheet
AF04	<ul style="list-style-type: none"> - Statistical check function of prepacked goods, for internal use or according to legal norms. - Management up to 4 independent scales + remote scale. - 4 levels of totals zeroable and printable in an independent way. - Database: 1000 Articles and 15 free texts. 	>> Technical data sheet
AF05	<ul style="list-style-type: none"> - Price computing function with labelling and weight and price totalization. - Management up to 4 independent scales + remote scale. - 4 levels of totals zeroable and printable in an independent way. - Database: 1000 Articles, 1000 Ingredients, 300 Clients, 200 Tares for each scale and 15 free texts. 	>> Technical data sheet
AF08	<ul style="list-style-type: none"> - Wheel and axle weighing with calculation of the centre of gravity. - Management up to 4 independent scales + remote scale. - 4 levels of totals zeroable and printable in an independent way. - Database: 500 Articles and 15 free texts. 	>> Technical data sheet
AF09	<ul style="list-style-type: none"> - Dynamic weighing axles. - Static weighing axles. - Deduction of a known tare value or IN / OUT function. - Management of up to 2 scales (NOTE: The platforms are connected to the same reading channel). - Viewing and printing of the vehicle total. - Database: 500 Clients, 500 Products, 500 Vehicles and 15 free texts. 	>> Technical data sheet
E-BATCH1	<ul style="list-style-type: none"> - Single product dosage function in loading and unloading, with tolerance check - Management of the dosage on various scales (up to 4), with production program and automatic scale change. - Automatic printing of the dosage data and storage/printing of the consumptions. - Database: 500 single products formulas. 	>> Technical data sheet
E-BATCH	<ul style="list-style-type: none"> - Multicomponent dosage function, with tolerance check. - Management of the dosage on various scales (up to 4) with automatic scale change. - Automatic printing of the dosage data and storage/printing of the consumptions. - Database: 500 formulas; each formula contains 20 products/activities. 	>> Technical data sheet
E-CHECK	<ul style="list-style-type: none"> - Weight packages on a conveyor belt functions, with tolerance check. - Management of 1 scale. - Automatic printing of the dosage data and storage/printing of the consumptions. - Database: 1000 Articles. 	>> Technical data sheet
E-BELT	<ul style="list-style-type: none"> - Reading/regulation function of the flow on the weighing belt. - Management of 1 scale. - Automatic printing of the dosage data and storage/printing of the consumptions. - Database: 100 Articles. 	>> Technical data sheet