

"CPWE": MICROCONTROLLER / WEIGHT INDICATOR FOR INDUSTRIAL AUTOMATION



CPWE: microcontroller for the industrial automation.

I/O SECTION:

- **2 RS232 serial ports** configurable for connection to PC, printers, labellers, ethernet model (optional), remote scale, repeater, serial bar code reader or other external units.
- **RS232/RS485 port** configurable for PC, PLC, or other external units.
- **Keyboard emulation input** for connection to PC keyboard or bar code reader, through cable with mini DIN connector (optional).
- **16 optoisolated electronic outputs** 0.15A 48Vac / 0.15A 60Vdc configurable as weight thresholds or for automation management (depending on the software program).
- **8 optoisolated inputs**, configurable as remote function keys or for automation management (depending on the software program).



- 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.

OPTIONS UPON REQUEST (at time of order)

- Printer for panel mounting.
- Analogue input (depending on the software program), with A/D converter at 16 bit, 0-10Vdc, 0-20mA, 4-20mA.
- Analogue output with D/A converter at 16 bit, 0-10Vdc, 0-20mA, 4-20mA.
- Ethernet interface.
- Bluetooth interface.

Multifunctional microcontroller/ weight indicator for use in industrial systems. 16 outputs and 8 digital inputs, 3 RS232/RS485 serial outputs, 16 bit analogue output, Sysway transmission protocols and RTU Modbus are some of the features of this indicator, which, added to the range of available application software programs, allow the use in dosage and weight verification applications, with direct management of the automation. CE-M approvable (OIML R-76 / EN 45501).

MAIN FEATURES

- Waterproof 25-key numerical functional keyboard, which allows to easily enter the target, alphanumeric texts, codes, etc.;
- Programmable function keys, for customising the keyboard functions according to the needs.
- Easy to consult backlit graphic LCD display, with a clear visualisation of the weight and of the automation status; selection of the language from the menu.
- Anodised aluminium case according to DIN norms, with dimensions of 202x105x147.7mm; 187x90mm template for panel board mounting.
- IP65 front panel protection, against dust and water sprays.
- Real time clock and permanent data memory.
- Integrated alibi memory for CE-M communication with PC and printer.
- Calibration and Set-Up parameters, configurable from PC with Dinitools or with the keyboard; theoretical calibration with the entry of the characteristics of the load cells.
- Up to 1.000.000d displayable for internal factory use.
- Up to 10.000e or multirange 3 x 3000e @ 0,3 μ V/d in approved version for CE-M legal for trade use.
- Up to 8 signal linearisation points with DINITOOLS.
- Internal resolution of up to 3.000.000 points.
- A/D 24 bit sigma-delta 4-channel conversion, up to 200 conv./sec. with automatic selection; connectable with up to 8 analogue load cells with 350 Ohm input resistance. Filtering system through programmable software, adjustable according to the system.
- Management of a weighing system with digital equalisation of the 4 cells or management of up to 4 independent weighing systems (depending on the application software).
- Power supply: from 8Vdc to 40Vdc and, upon request, 100-240Vac (with the ALSW optional external power supplier).
- Operating temperature: from -10 to +40°C.
- Connectable to printers and labellers through the available command drivers.

Available versions

Code	Description
CPWEBATCH1	Microcontroller / weight indicator for panel mounting, in the BATCH1 version for single product dosage systems in loading or unloading, with aluminium case with IP65 front panel protection, 25-key keypad and backlit graphic LCD display.
CPWEBATCH	Microcontroller / weight indicator for panel mounting, in the BATCH version for multicomponent dosage systems, with aluminium case with IP65 front panel protection, 25-key keypad and backlit graphic LCD display.
CPWECHECK	Microcontroller / weight indicator for panel mounting, in the CHECK version for +/- tolerance control systems on weighing belt, available both static and dynamic, with aluminium case with IP65 front panel protection, 25-key keypad and backlit graphic LCD display.
CPWEBELT	Microcontroller / weight indicator for panel mounting, in the BELT version for control and flow regulation on conveyor belt, with aluminium case with IP65 front panel protection, 25-key keypad and backlit graphic LCD display.
CPWEAF01	Microcontroller / weight indicator for panel mounting, in the AF01 version for totalization and dosage systems, with aluminium case with IP65 front panel protection, 25-key keypad and backlit graphic LCD display.
CPWEAF02	Microcontroller / weight indicator for panel mounting, in the AF02 version for quantity (pieces, litres, etc.) counting systems, with aluminium case with IP65 front panel protection, 25-key keypad and backlit graphic LCD display.
CPWEAF03	Microcontroller / weight indicator for panel mounting, in the AF03 version for vehicle weighing systems, with aluminium case with IP65 front panel protection, 25-key keypad and backlit graphic LCD display.
CPWEAF04	Microcontroller / weight indicator for panel mounting, in the AF04 version for statistical check of prepackaged goods, with aluminium case with IP65 front panel protection, 25-key keypad and backlit graphic LCD display.
CPWEAF05	Microcontroller / weight indicator for panel mounting, in the AF05 version for industrial price computing, with aluminium case with IP65 front panel protection, 25-key keypad and backlit graphic LCD display.

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.
TPRPC	Thermal printer for panel mounting for use with weight indicator, with connection cable, 110-240Vac / 5 VDC power adapter included.
BLTH	Bluetooth interface integrated with the instrument, for wireless connection to the portable PC or PDA.
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.
PROFI232	External PROFIBUS serial interface in ABS case for panel mounting on DIN bar, with RS232 serial port for connection to CPWE and 3590E series indicator, in the versions with management of the Profibus protocol, 9-pin connector for connection to Profibus network.
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.

Accessories

Code	Description
ALSW	100-240 VAC 2,1 A 12 Vdc output, switching 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.
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).
CMP	Box for wall mounting in RAL 7035 grey oven-fire painted metal, made to hold 1 CPW, up to 6 push buttons and/or pilot lights, and a printer for panel mounting (TPRPC). Fitted with non-reflecting screen, panel bottom plate, 2 push buttons, main switch, terminal board and fixing brackets.
CMPCS	Floor support column for CMP
CMPI	Box for wall mounting in stainless steel, for holding 1 CPW, up to 6 push buttons and/or pilot lights, and a printer for panel mounting (TPRPC). Fitted with non-reflecting screen, panel bottom plate, 2 push buttons, main switch, terminal board and fixing brackets. Hatch with glass porthole.
CMPCSI	Floor support column for CMPI in stainless steel.
CMPELMC	CMP box with electromechanics. Fitted with emergency push button, pilot lights and wiring diagram; all according to regulations in force.
CMPSMF	Three-way control box for CMP