

"CPW": MULTIFUNCTION MICROCONTROLLERS FOR INDUSTRIAL AUTOMATION



CPW: microcontroller for the industrial automation.



CPW: dimensions in mm.



TRSXT: stainless steel table version (with optional remote control).

Multifunction microcontroller/weight indicator, for use in industrial systems.

11 relays, 6 inputs, up to 3 serial outputs, 16 bit analogue output, Sysway transmission protocols, Modbus RTU and Profibus are some of the features of this indicator, which, added to the range of available application software programmes, allow for its use in dosage, control, and weight verification applications, with direct management of the automation.

Omologabile CE-M (OIML R-76 / EN 45501).

MAIN FEATURES

- Easy to use 6-key waterproof keypad.
- Main semialphanumeric red LED display, highly efficient, with 6 digits 15 mm high.
- Secondary alphanumeric backlit LCD display with 2 lines of 16 char. each. Synoptic bar graph with 16 bright indication LEDs showing the active functions.
- Anodised aluminium case according to DIN standards, 193x97x140 mm, 187x91 mm perforation for mounting on a board, for CPW model.
- IP68 SATINED STAINLESS STEEL case, for TRSXP model.
- Time/date and permanent memory data also in case of mains power interruptions.
- Calibration and parameter Set-Up, configurable from PC with Dinertools or from keypad; theoretical calibration with entry of the characteristics of the load cells.
- Up to 10.000e or multirange 3 x 3000e @ 0,3 μ V/d CE-M legal for trade.
- Up to displayable 1.000.000d for internal factory use.
- Up to **8 signal linearisation points** with DINITOOLS.
- Internal resolution 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 analog load cells with 350 Ohm input resistance.
- Management up to 4 independent scales or digital equalisation of the 4 channels.
- Power supply from 8 Vdc to 40 Vdc and upon request, 100-240 Vac (with ALSW optional external power adapter), for CPW model; built-in rechargeable battery (60 hours with a 350 Ohm cell) and power supply with 110-240 Vac fitted power adapter for TRS model.
- Connectable to printers and labellers through available driver commands.

OPTIONS AVAILABLE (only with order of indicator)

- Panel printer.
- RS485 interface.
- RS422 interface.
- Analogue output with D/A 16 bit converter, 0-10Vdc, 0-20mA, 4-20mA or programmable.
- Alibi Memory (for CPW03 and CPW03CHECK models)
- Ethernet interface.
- Third serial port (for CPW03, CPW03CHECK, CPW03BELT, CPW03LW models).

I/O SECTION

- **RS232/C bidirectional port** configurable for connection to printer, labeller, or other external units.
- **RS232/C bidirectional port** (optionally, RS485 or RS422) configurable for PC, PLC, or other external units.
- **Third RS232/C serial port** (optional, depending on the model), for connection to remote scale, barcode reader or repeater.
- **11 0.5A 48 Vac / 1A 24 Vdc relay outputs** programmable as weight thresholds or for automation

- Profibus interface (for CPW03BELT, CPW03LW, CPW03CHECK models).
- management (depending on the software application).
- **6 optoisolated inputs**, configurable as remote function keys or for automation management (depending on the software application).
- **Profibus output** (optional, depending on the model), for remote management of the system.

Available versions

Code	Description
CPW03	Multifunction microcontroller for industrial automation; 6 IN / 11 OUT in series
CPW03BELT	CPW version for management of continuous dosages on belt; 6 IN / 11 OUT in series
CPW03LW	CPW version for management of continuous dosages on unloading; 6 IN / 11 OUT in series

Options only available at time of order

Code	Description
KCEM	Plates kit, indicator Welmec form for each foreseen platform for legal for trade use
TPRPC	Thermal printer for panel mounting with >50mm/sec. speed, 203 dpi resolution, 24/40 columns, 58 mm width; 50 mm roll diameter. Inclusive of 110-240Vac/5 VDC power adapter
ADC16I	Analogue input with A/D 16 bit converter, configurable from 0 to 10Vdc or from 0 to 20mA through the keyboard or the PC through Dinitools. Maximum applicable resistance on the input in current is equal to 250 Ohm; minimum applicable resistance on the input in voltage equal to 15KOhm.
DAC16O	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
35ALMEM	Alibi memory (fiscal memory) max. 120.000 weighs
35RS485	RS485 port option
35RS422	RS422 bidirectional port option
IFKBRD	Serial interface for connection to PC keyboard / bar code reader (to be combined with KBCBC cable) and for remote scale serial connection
KBCBC	Cable with MINI DIN connector for PC keyboard connection (must be combined with IFKBRD serial interface)
IFKPB	PROFIBUS serial interface (with cable having a 9-pin connector for connection to Profibus external device)
DCATEXMB4	DECLARATION OF ATEX CONFORMITY OF WHOLE Ex II 2GD IIC T6 T125°C 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).

Accessories

Code	Description
ALSW	100-240 VAC 2,1 A 12 Vdc output, switching power adapter
LP542S	Thermal labeller with peel-off system: resolution of 8 dots/mm; max. label width of 112 mm; max. speed of 127 mm/sec; RS 232/C, parallel, and USB interface. Printing of the most common BARCODES. Power supply with external 100/240 Vac power adapter. Connection cable of 1,5 m.
PCKBRD	Extended PC keyboard
CMP	Box for wall mounting in RAL 7035 grey oven-fire painted metal, made to hold 1 CPW03, 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	STAINLESS STEEL box for holding 1 CPW03, 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	STAINLESS STEEL floor support column for CMPI
CMPELMCCMP	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