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# WA-802r Weight Indicator

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## for Top-hat Rail Installations

- Top hat rail unit
- Display
- No keyboard
- Supply voltage 24VDC (safety)
- Legal-for-trade
- Full I/O
- Optional PC keyboard
- Integrated Ethernet
- 3 serial interfaces
- 4 digital inputs, 4 relay outputs
- Analog output 0(4) - 20 mA
- Optional Fieldbus Modules

### APPLICATION

The WA-802r weight indicator are perfectly suited to all applications where weights are recorded, displayed and printed legal-for-trade. Results can be transferred to master systems for further processing.

WA-802r weight indicator is also excellently suited to simple control jobs in process applications with its complete equipment of interfaces.

The indicator fits easily into data processing and control systems with its extensive communication options, regardless of whether it's PLC or PC.

Some typical applications are:

- Applications as weight transducers for PC-based weighing and data processing systems (such as truck scales)
- Weight transmitter for industrial solutions with communication interface to automation system.

### EQUIPMENT

WA-802r has:

- An analog output
- Binary I/O
- Serial interfaces
- A wide range of communication options.

This indicator has an easily readable LCD display with backlight. Data is keyed in via an optional PC Keyboard.

WA-802r can be conveniently configured and calibrated via the WA-plan PC program.

WA-802r design is for top-hat rail assembly in the control cabinet - also legal-for-trade and including a display.

## COMMUNICATION

With three serial interfaces, WA-802r weight indicator is excellently equipped for exchanging data with its environment. For example, printer, large display, or data processing can be connected at the same time.

Two of the interfaces are designed as RS 232. The third (RS 485 2/4 wire) is especially suited to communication on the bus and at greater distances.

The Ethernet interface (10/100 Mbit/s) is operated in the control systems via the MODBUS/TCP protocol. The instrument can also be configured via the Ethernet interface.

The standard fieldbus system

- Profibus DP-V0 and
- DeviceNet

can be connected via matching optional coupling modules.

## INPUTS AND OUTPUTS

For control jobs, WA-802r weight indicator has the following parallel inputs and outputs:

- 4 optocoupler inputs 24 V
- 4 relay outputs, suited for 230 VAC

Beyond this, WA-802r has a 12-bit analog output that can transfer for example weight or material flow information to a PLC or display.

## OPERATION AND SETTINGS

Standard operation is in:

- Finnish
- English.

All operator guidance is carried out and data is entered in clear text.

You can easily load other operating languages into the instrument via the PC-assisted WA-plan configuration program (WINDOWS program).

WA-plan also allows:

- setting all instrument parameters
- calibrating the instrument
- conveniently configuring the print pattern
- read-out and display of weight signals
- reading out the complete instrument configuration (backup)
- restoring stored data into a WA weight indicator. This means a substitute can be prepared at short notice.

All parameter and calibration data are stored power failure safe in the instrument. The real-time clock runs at least 7 days without a power supply.



## FUNCTIONS

Beyond the basic scale functions such as

- Acquire and clear tare
- Zero positions
- Print

WA-802r weight indicator can also carry out a series of other functionalities. The WA-802r weight indicator can be configured for specific applications that both allocates the essential actions to the six function keys and assigns the inputs and outputs of the instrument to the matching signals.

## LEGAL FOR TRADE MEMORY

The additional built-in legal-for-trade memory releases the user from the necessity of creating and archiving legal for trade vouchers on paper.

## COMPUTING POWER

In spite of its low price, WA-802r weight indicator has enormous processing performance. The 32-bit ARM controller also has sufficient power reserves for fast weighing processes, simultaneous operation of various interfaces and also for future applications.

## DONGLE STRATEGY

All of the scale's relevant setting and calibration data are stored in the dongle. Since all of our instruments are calibrated at the factory for identical sensitivity, you can interchange the electronic equipment at any time if there is a defect. After attaching the dongle, the scale is correctly configured and calibrated again. This means that even legal for trade scales do not have to be recalibrated or reverified.