

WA-804 TOTALIZING SCALE CONTROLLER

FOR AUTOMATIC RECEIVING AND LOAD-OUT SCALES



- Dosing functions
 - Full and fine filling
 - Automatic discharging
 - Multi-part dosing
- Legal-for-trade, MID, Automatic gravimetric filling instrument
- Integrated Ethernet
- 3 serial interfaces, 4 digital inputs, 4 relay outputs
- Analog output 0(4) - 20mA
- Fieldbus Modules (option)
- LFT Memory (option)

APPLICATION

WA-804 Totalizing Scale Controller is designed to fast and accurate counting and totalizing of material amounts.

WA-804 controls independently both the dosing and the discharging equipment.

The controller can be programmed to function in continuous or in batch operating mode.

EQUIPMENT

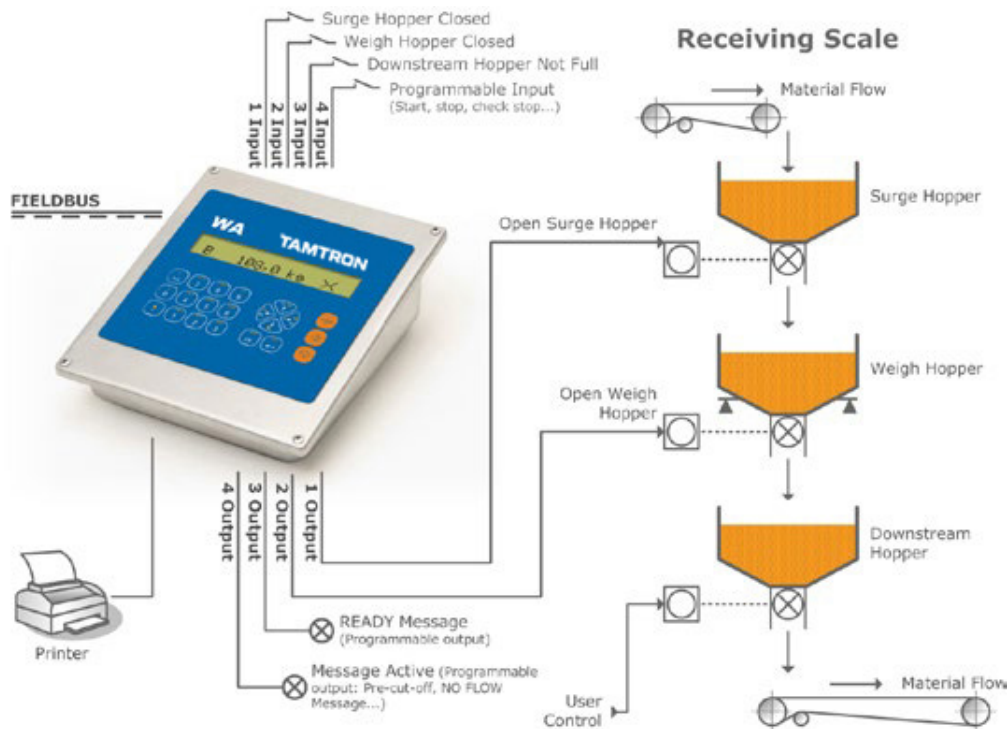
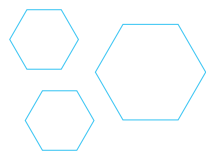
WA-804 is available with two different housing:

- Wall or table mountable model (IP65, stainless steel)
- Panel mountable model (IP54, plastic)

WA-804 has an easily readable back lighting LCD display for showing weight with clear text operator guidance. Data is keyed in via flexible membrane keyboard with 21 keys.

WA-804 can be conveniently configured and calibrated via the WA-plan PC program.





COMMUNICATION

WA-804 weight indicator has three serial interfaces, two of which are type RS-232 and one RS-485 (2/4 wire) and one 10/100 Mbps Ethernet port.

These can be used with WA-Plan, Second Displays, EDP-Protocols (Siemens 3964R, S5 (RK512), DDP8672, DDP8785, Modbus, SB03, Minproz) and Modbus (RTU and TCP).

There are also optional fieldbus interfaces:

- Profibus DP-V0
- Profinet IO
- DeviceNet

Ethernet/IP is supported through additional license.

PARALLEL SIGNAL INTERCHANGE

For control jobs, WA-804 has the following parallel inputs and outputs:

- 4 optocoupler inputs 24 Volt
- 4 relay outputs
- Beyond this, WA-804 has a 12-bit analog output that can transfer e.g. weight or material flow to a PLC or display. Also it is possible to use an analog output for e.g. frequency converter control.

OPERATION AND SETTINGS

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

Standard operation languages are:

- Finnish
- English.

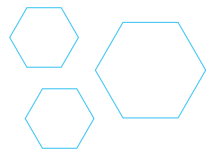
You can easily load other operating languages into the instrument via the PC-assisted WA-plan configuration program (WINDOWS program).

WA-plan also allows:

- setting of 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

WA-804 Totalizing Scale Controller is designed to fast and accurate counting and totalizing of large material amounts.

The controller can be programmed to function in continuous or in batch operating mode. In the continuous mode no target amount has been set for the receiving scale. In the batch operating mode, on the contrary, the controller accurately doses an amount according to a preset target value. When dosing is started the controller fills the scale according to set target or maximum filling value of the material. After that, taring is performed and the scale is discharged.

When the scale is empty and stabilized, the net weight is added to the totalizing counter and saved in to legal-for-trade memory.

The sequence is repeated until the set target amount is reached (batch operating mode), or (in the continuous operating mode) until the material to be received has run out, when the remaining material on the scale is discharged and added to the totalizing counter through a separate command. Then the controller is reset.

During the dosing process the operation status and eventual alarms are shown in the display.

The totalizing counter contains the cumulative sum weight and the number of weighings. The sum can be displayed and printed.

The totalizing counter is zeroed automatically when a new dosing sequence is started.

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.

