

WA-805 FILLING SCALE CONTROLLER

FOR AUTOMATIC FILLING SCALE APPLICATIONS



- Dosing functions
 - Full and fine filling
 - Tolerance check, make up filling, filling optimization
 - Automatic discharging
- 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

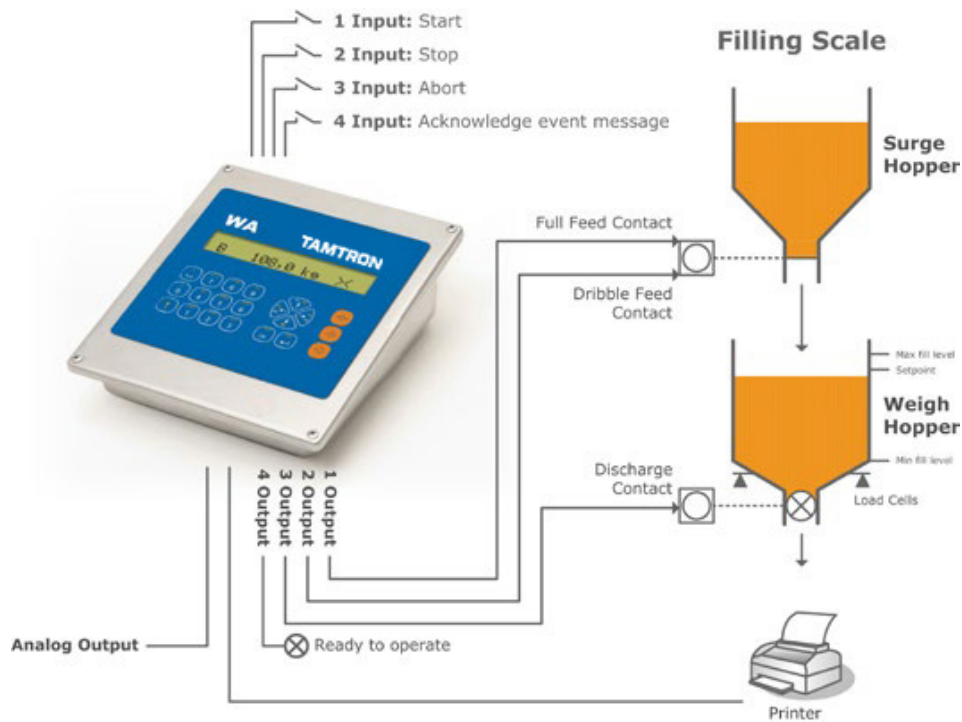
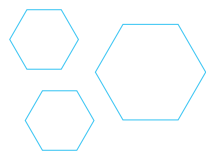
The WA-805 Filling Scale Controller is designed to fast and accurate control of dosing and weighing in industrial batch processes. The WA-805 controls independently dosing and discharging equipment.

When dosing is started, the controller sets the full feed filling on, switches to a fine feed filling at the fine feed limit, and cuts off the dosing at target value minus preact. The full/fine feed can be controlled with a digital outputs. Also it is possible to use an analog output for e.g. frequency converter control. When the dosing is completed the controller adjusts the

preact to the optimum value according to the dosed net weight. If the dosed amount is below the preset tolerance, dosing is restarted automatically using fine feed pulses. During the dosing, the operating mode of the controller as well as possible alarms are shown on the display.

Additionally dosing can be started smoothly using the fine feed operation. The controller provides automatic dosing optimization based to preact amount correction. The optimization improves essentially the accuracy of dosing.





EQUIPMENT

WA-805 is available with two different housing:

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

WA-805 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-805 can be conveniently configured and calibrated via the WA-plan PC program.

For materials with varying properties, 10 selectable parameter records (material data sets) are available.

COMMUNICATION

WA-805 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.

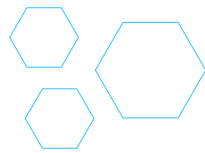
PARALLEL SIGNAL INTERCHANGE

For control jobs, WA-805 has the following parallel inputs and outputs:

- 4 optocoupler inputs 24 Volt
- 4 relay outputs

Beyond this, WA-805 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 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

The filling scale is designed to feed liquids or bulk solids into hoppers or fill them into containers. Filling is in two speeds, by full feed and dribble feed, to setpoint. The amount fed is checked for tolerance and made up, if necessary. Overfill is reported by a message. For optimization of feed process, pre-act and main contacts are tracked.

After each aborted or completed batch, weigh data are automatically printed and totalized. Accumulation contains the cumulative total of NET weights and the number of totalized batches. Accumulation can be displayed and printed.



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.

