WA-806 DISCHARGE SCALE CONTROLLER

FOR AUTOMATIC DISCHARGE SCALE APPLICATIONS

- Dosing functions
  - **Full and fine discharging**
  - **Tolerance check, make up operation, optimization**
  - **Automatic refilling**
- **Legal-for-trade, MID, Automatic gravimetric filling instrument**
- **Integrated Ethernet**
- **3 serial interfaces**
- **4 digital inputs, 4 relay outputs**
- **Analog output 0(4)-20 mA**
- **Fieldbus Modules (option)**
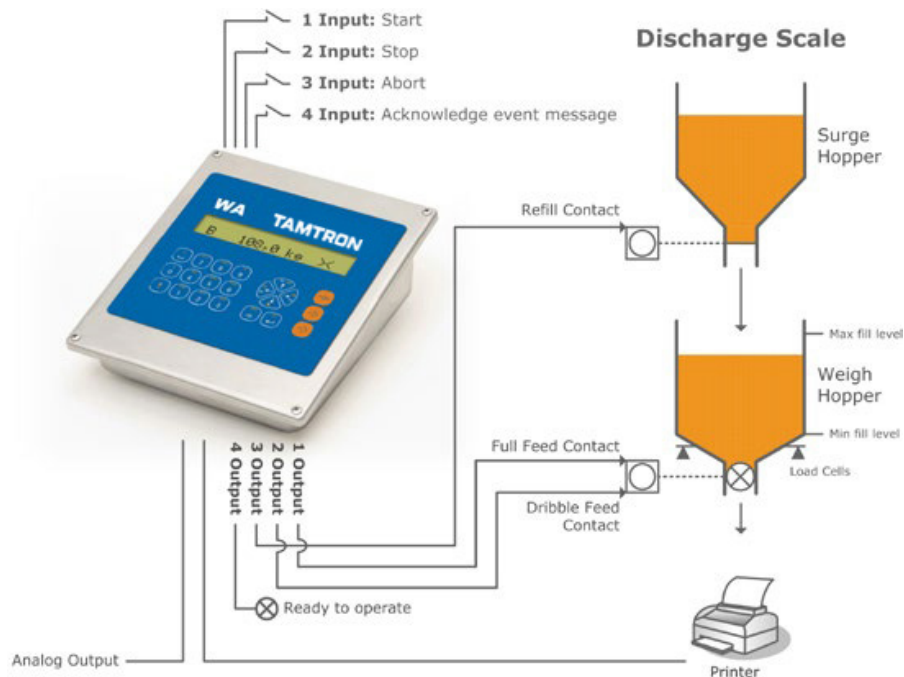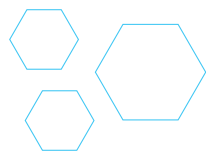- **LFT Memory (option)**

APPLICATION

The WA-806 Discharge Scale Controller is designed to fast and accurate control of dosing and weighing in industrial batch processes. The WA-806 controls independently dosing and filling equipment.

When dosing is started, the controller sets the full feed discharging on, switches to a fine feed discharging 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.

WA-806

EQUIPMENT

WA-806 is available with two different housing:

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

WA-806 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-806 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-806 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.
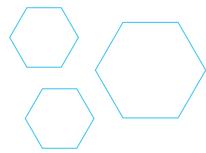
PARALLEL SIGNAL INTERCHANGE

For control jobs, WA-806 has the following parallel inputs and outputs:

- 4 optocoupler inputs 24 Volt
- 4 relay outputs

Beyond this, WA-806 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.

WA-806

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 program 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 discharge scale is designed to feed liquids or bulk solids out of hoppers into containers. Discharge is in two speeds, by full feed and dribble feed, to setpoint. The amount feed 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 feed operation, weigh data are automatically printed and balanced. The balance contains the cumulative total of NET weights and the total number of NET weighings performed. The balance can be displayed and printed.

WA-806 Discharge scale controller

LEGAL FOR TRADE MEMORY

The additional built-in legal-for-trade (LFT) memory releases the user from the necessity of creating and archiving legal for trade vouchers on paper. Integrated LFT memory module provides paperless printing, and traceability of legal-for-trade measurement values.