WA-810 TOTALIZING BELT SCALE INDICATOR

FOR STAND ALONE BELT WEIGHERS

- Functions
  - Totalizing counter
  - Massflow display
- Ethernet connection
- 1 serial port
- 4 digital inputs, 4 relay outputs
- Pulse output for external counter
- Analog output 0(4)-20 mA
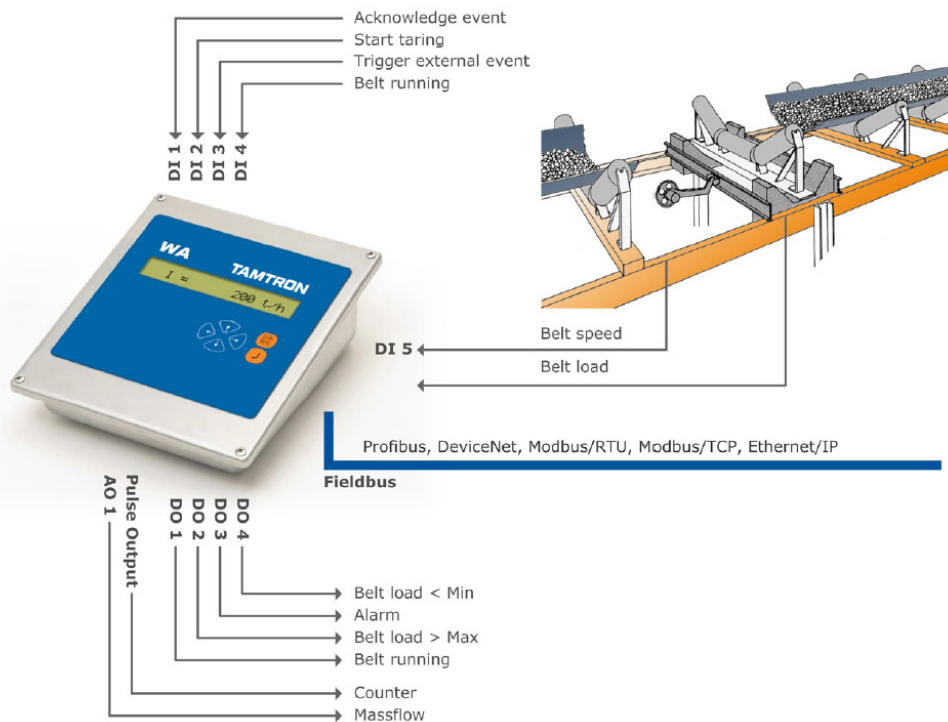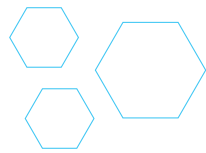- Optional fieldbus modules

APPLICATION

The WA-810 Totalizing Belt Scale Indicator is designed for accurate and reliable measuring of material amount driven through a belt conveyor. Material weight and belt speed are used to count the massflow. Total amount of material is seen in the totalizing counter.

HARDWARE

WA-810 stainless steel case has IP65 protection class. The device can be mounted on table or on wall. The device can also be mounted on control cabinet door.

WA-810 has an easily readable illuminated LCD-display. The membrane keyboard has 6 keys. Parameters can be entered and calibration can be done easily with the display and the keyboard.

WA-810

FIELDBUS INTERFACES

Serial port can be used to connect the device to a control system with Modbus/RTU protocol. The serial port type is RS-485.

Ethernet connection (10/100 Mbit/s) can be used to connect the device to a control system with Modbus/TCP protocol.

In addition to integrated connections there are also the following optional fieldbus modules available:
- Profibus DP-V0
- Profinet IO
- DeviceNet
- Ethernet / IP

INPUTS AND OUTPUTS

WA-810 has the following inputs and outputs:
- 4 opto-isolated inputs, 24 V DC
- 1 Namur input for belt speed tachometer
- 4 relay outputs, 50 V AC
- 1 opto-isolated pulse output for external counter
- 0(4)-20 mA analog output,12-bit.

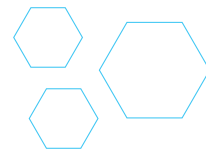Analog output can be used to transfer massflow information to control systems or secondary displays.

Totalizing counter value is transferred to pulse output.

FUNCTIONS AND PARAMETERS

All parameters can be viewed and modified in display. Parameter codes, values and also names are displayed.

All parameters and the calibration data are stored in non-volatile memory and remain unchanged in case of power failure. The real-time clock keeps working at least 7 days without power supply.

WA-810

MEASURING

The WA-810 Totalizing Belt Scale Indicator continuously measures the material on the conveyor on the basis of weight and belt speed. A load cell measures the weight on the weighing roll and a speed transducer measures belt speed.

The massflow value can be seen in display and it can be read through analog output or fieldbus.

The amount of transferred material is continuously added to the totalizing counter. The counter value can be seen in display and it can also be read through the fieldbus. The totalizing counter can be cleared by keyboard or by fieldbus.

The following information can be seen in display in basic operation state:

- Totalizing counter value
- Massflow
- Massflow in percents compared to nominal massflow
- Weight on weighing roll
- Weight in percent compared to nominal weight
- Belt speed

WA-810 has a flexible membrane keyboard with 6 keys