

# WE-810-3 TOTALIZING BELT SCALE INDICATOR

FOR WEIGHING BULK MATERIALS



- Approved for commercial use (MID)
- Functions
  - Totalizing counter
  - Mass flow display
- Data transfer options
  - Ethernet
  - Serial interfaces
  - Fieldbuses
- Optional extensions:
  - Digital inputs and opto-isolated outputs
  - Analogue output 0(4) - 20 mA
- Supply voltage 110–240 VAC, 50–60 Hz

## APPLICATION

The WE-810-3 totalising belt scale indicator is designed for accurate and reliable monitoring of the amount of material transported on a belt.

The belt scale indicator continuously measures the weight of the material transported on the conveyor belt based on the weight and speed of the belt. The load cell measures the load in the weighing area of the belt and the speed sensor measures the speed of the belt.

The mass flow value is shown on the device display and can be read from the analogue output or via the fieldbus.

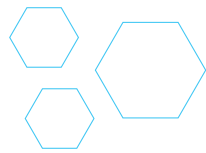
The total amount of transferred material is continuously updated in the totalizing counter. The totalizing counter value is visible on the device display and can also be read via the fieldbus. The totalizing counter can be reset via the function menu or the fieldbus.

The following information is visible on the device display in default mode:

- Status bar → belt running, error messages, etc.
- Main display → current mass flow
- Optional information in the bottom bar, such as totalizing counter, belt speed, belt load and load cell loading as a percentage.



# WE-810-3



## EQUIPMENT

The stainless-steel housing (IP65 / IP69K) of the WE-810-3 belt scale terminal allows for either wall or table mounting.

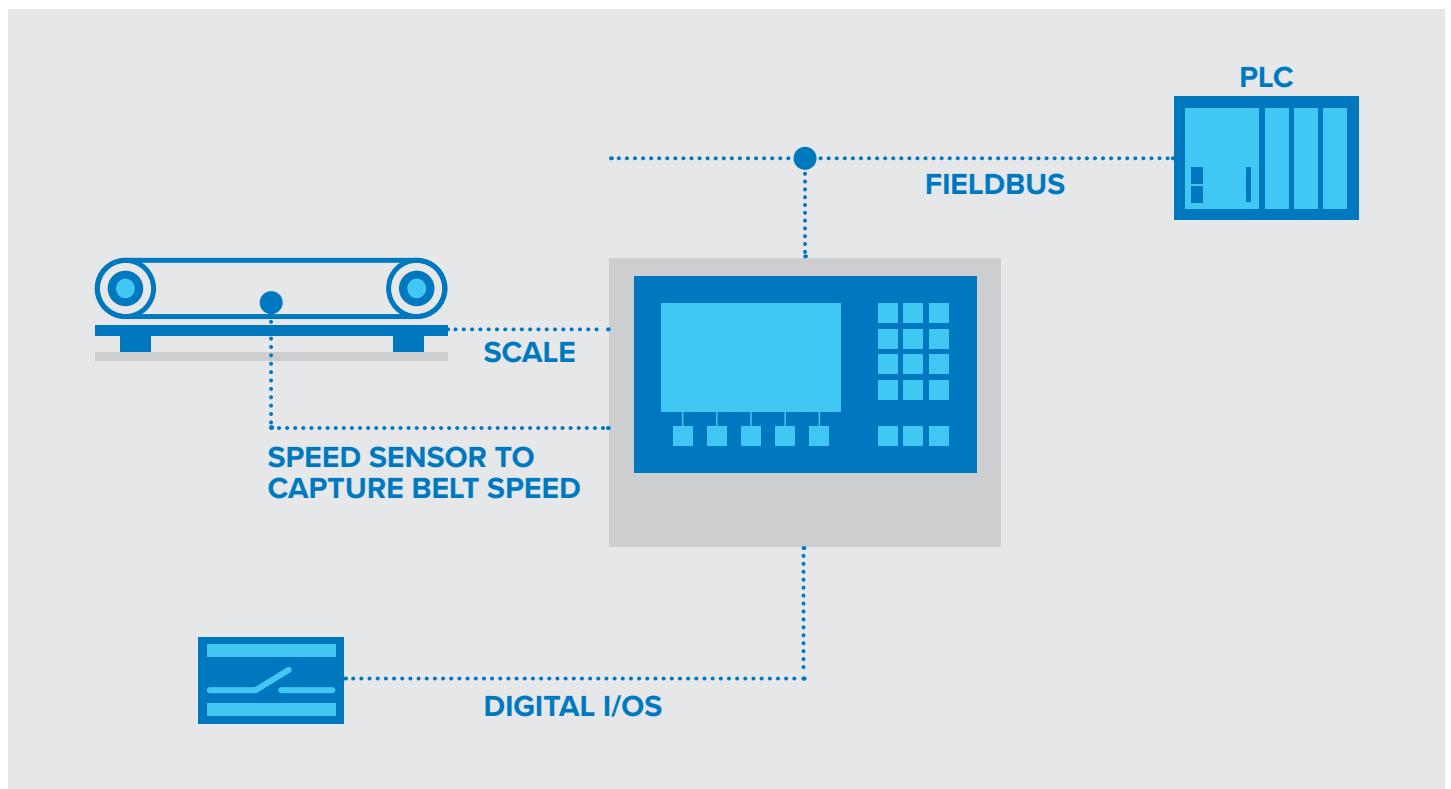
The device has an easy-to-read 4.3-inch backlit colour LCD display. The device is operated via a 20-key membrane keyboard. The device can be easily parameterised and calibrated using the device display and keyboard.

Integrated power supply and sealed cable glands for all cable connections.

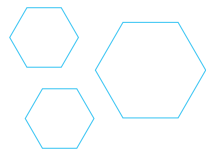
## COMMUNICATION

The WE-810-3 offers a wide range of options:

- Analogue output corresponding to instantaneous mass flow
- Digital I/O
- Serial interfaces
- Ethernet
- Fieldbuses such as Profinet



# WE-810-3



**WALL/TABLE  
VERSION**  
Stainless steel  
enclosure for wall  
and table mounting



**PANEL MOUNTING  
VERSION**  
Stainless steel enclosure  
for installation in a switch  
cabinet opening

## WEIGHING ELECTRONICS

- ▶ Number of scale connections.....1
- ▶ Load cells (input impedance).....43–3,300 ohms (e.g. 8 x 350)  
when using Zener barriers 87.5–3,300 ohms (e.g. 4 x 350)
- ▶ Approvals .....EC: MID, accuracy classes 0.5, 1 and 2
- ▶ Log memory approved for commercial use .....internal memory, space for 1,000,000 log entries (optional)

## HARDWARE

- ▶ Display .....4.3" colour TFT, 480 x 272 pixels
- ▶ Keyboard .....20 membrane keys, external PC keyboard optional
- ▶ Serial interfaces\* .....(optional) RS232 / current loop 20mA / RS485
- ▶ Digital I/Os\* .....(optional) 1 input and 2 outputs. Opto-isolated 24 V DC, 500 mA
- ▶ Fieldbus connection\* .....(optional) Profibus DP-V0 / Profinet / Ethernet/IP
- ▶ Ethernet connection\* .....(optional)
- ▶ USB connection .....(optional)
- ▶ Analogue output\* .....(optional) 0–20 mA, 4–20 mA, 0–10 V or 2–10 V  
internal 32,768 steps, 15 bits (DAU15)
- ▶ Power supply .....110–240 V AC or 12–30 V DC

## DIMENSIONS AND PROTECTION TYPE

- ▶ Wall/table version .....L x H x W: 2280 x 214 x 124 mm
- ▶ Panel mount version .....L x H x D: 241 x 180 x 47 mm  
Cut-out L x H: 223 x 162 mm
- ▶ Protection type\*\* .....IP69K

\* WE-810-3 totalizing belt scale indicator can be equipped with either:

1. analogue output and digital I/O connections
2. a serial connection, Ethernet or fieldbus connection

(These can be combined with either an analogue output or digital I/O, depending on the application requirements).

\*\* The protection types stated for panel mounting versions only apply to the front panel if the enclosure is installed correctly.

