

WE-805-3 FILLING SCALE CONTROLLER

FOR AUTOMATIC FILLING APPLICATIONS



- Approved for automatic gravimetric filling use (MID)
- Functions:
 - Filling or emptying applications
 - Two-stage dosing
- Extended keyboard, 20 keys
- Data transfer options
 - Ethernet
 - Serial connections
 - Fieldbuses
- Optional extensions:
 - Digital inputs and opto-isolated outputs
 - Analog output 0(4) - 20 mA
- Supply voltage 110-240 VAC, 50-60 Hz

APPLICATION

The WE-805-3 dosing controller is designed for fast and accurate dosing and weighing in industrial dosing processes.

The WE-805-3 controls independently dosing into the container. Dosing by emptying the container is also possible.

Nine separate material parameter records can be defined for applications where the properties of the materials differ significantly from one another.

Suitable for harsh environmental conditions and locations with high hygiene standards, as in the food, pharmaceutical, and chemical industries.

The controller is also easy to connect to other systems thanks to its numerous data transfer options.

EQUIPMENT

The WE-805-3 offers a wide range of hardware options:

- Analog output
- Digital I/O
- Serial interfaces
- Ethernet
- Fieldbuses such as Profinet

This controller features a 4.3-inch backlit color LCD that is easy to read. Data is entered via a flexible membrane keyboard with 20 keys. WE-805-3 can be conveniently configured and calibrated using PC software.

Stainless steel housing IP65 / IP69K, suitable for highly demanding environments, including outdoor use. Mounting brackets for table and wall mounting are included.

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

COMMUNICATION

The WE-805-3 controller can have one or two serial interfaces, type RS-232 or RS-485 (2/4-wire), and one 10/100 Mbps Ethernet port.

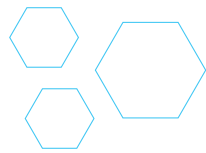
These can be used with remote displays, printers or PC.

There are also several fieldbus connection options:

- Profibus DP-V0
- Profinet IO
- Ethernet/IP



WE-805-3



INPUTS AND OUTPUTS

For control functions, the WE-805-3 controller can have the following digital inputs and outputs:

- max 3 inputs 24 VDC
- max. 4 opto-isolated outputs 24 VDC
- analog output is also possible

OPERATION AND SETTINGS

The controller's user interface is easy to read. All user instructions are displayed, and information is entered in clear text.

Operation is also possible with a separate PC program, which can be used to:

- setting all device parameters
 - calibrating the device
 - convenient configuration of the print template
 - reading and displaying weight data
 - backing up the device configuration
 - restoring stored data to the controller.
- This allows a replacement device to be prepared quickly and efficiently.

All parameters and calibration data remain stored in the device even in the event of a power failure. The real-time clock continues to function for days without a power source.

WEIGHING ELECTRONICS

The WE-805-3 is connected to a scale that uses analog strain gauge load cells. The impedance of the measuring circuit must be between 43 ohms and 3,3 kohms, for example, 8 x 350-ohm sensors. Or, when using Zener protectors, the input impedance should be between 87,5 ohms and 3,3 kohms, for example, 4 x 350-ohm sensors.

Connection modules for digital weighing sensors are available as accessories.

DOSING FUNCTIONS

The WE-805-3 controller is designed for dosing solid or liquid material into hoppers or filling them into containers. Dosing is a two-stage process, with coarse feeding providing a high mass flow and fine feeding providing good dosing accuracy.



When dosing starts, the controller switches on coarse feeding. Fine feeding is activated when the target amount of fine feed is reached. Dosing is stopped when the amount remaining is equal to the pre-act. Digital outputs control coarse and fine feeding.

When dosing is complete, the controller automatically adjusts the pre-act based on the dosing deviation. This significantly improves dosing accuracy.

If the dosed amount falls below the target and outside the tolerance, an automatic correction cycle is started. Correction dosing uses the fine feed digital output, which is usually pulse-controlled.

During dosing, the status information and any alarms are displayed on the screen.

After each dosing, the weighing data can be printed out and automatically added to the product-specific total counter. The total counter includes the cumulative net weight of the doses and the number of doses. The total can be displayed on the screen and printed out.

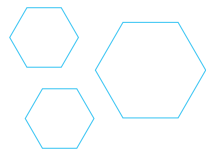
APPROVED FOR COMMERCIAL USE

Approved for commercial use up to accuracy class Ref (0.2). The scale can be set to operate in one or more ranges (e.g., 3 x 3000 d) and one or more intervals.

The built-in log memory replaces the log printer, freeing the user from the need to create and archive paper receipts.



WE-805-3



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



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

SOFTWARE

- ▶ Data collection
- ▶ Remote-controlled dosing in positive and negative directions
- ▶ Dosing controlled via fieldbus
- ▶ Print formatting via keyboard or PC software

WEIGHING ELECTRONICS

- ▶ Number of scale connections.....1
- ▶ Weighing sensors (input impedance)43–3,300 ohms (e.g., 8 x 350)
- ▶ Multi-area and multi-step operationYes
- ▶ ApprovalsEC: MID, max class Ref (0.2)
- ▶ Log memory approved for commercial useInternal memory, space for 1,000,000 log entries (optional)

HARDWARE

- ▶ Display4.3" color TFT, 480 x 272 pixels
- ▶ Key20 membrane keys, external PC keyboard optional
- ▶ Serial connections1 or 2 RS232/20mA/RS485 (optional)
- ▶ Digital I/Os (optional).....2 internal I/O modules (optional)
- ▶ Fieldbus connection (optional)Profibus DP-V0, Profinet, Ethernet/IP
- ▶ Ethernet interfaceOptional
- ▶ USB interfaceOptional
- ▶ Analog output.....0–20 mA, 4–20 mA, 0–10 V, or 2–10 V (optional)
Internal 32,768 steps, 15 bits (DAU15)
- ▶ Power supply.....110–240 V AC or 12–30 V DC

DIMENSIONS AND PROTECTION TYPE

- ▶ Wall/desktop version.....L x H x W: 228 x 214 x 124 mm
- ▶ Panel mount version.....L x H x D: 241 x 180 x 47 mm
(cutout L x H: 223 x 162 mm)
- ▶ Protection type**IP69K

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

