

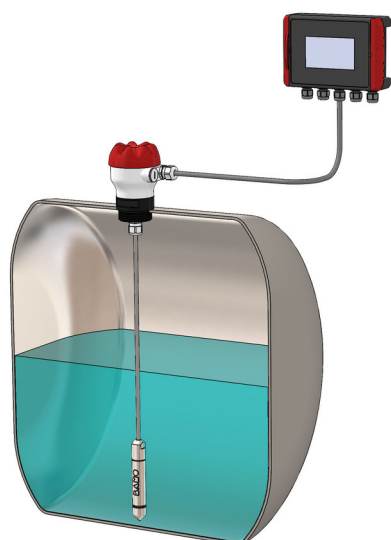
# Digital and graphical display BAMOWIZ



Wall-mounted model



Panel mounted model



Example of application

- Graphic color touch-sensitive screen
- Scale units: set on keyboard
- Inputs: 2 x 4-20 mA, 1 x Frequency
- Outputs: 1 x 4-20 mA, 1 x Modbus RS485
- 8 configurable thresholds on 3(4) relays
- Option: Modbus TCP/IP (Ethernet)

## APPLICATIONS

- Local display of any process (Level, turbidity, pressure, etc.)
- Flow counter and totalizer through frequency input
- Display and monitoring of measurements
- Display of level or volume with possibility of linearization
- Differential between two input signals (example: differential pressure with 2 sensors)

## DESCRIPTION

The instrument has a colour touch-sensitive screen to navigate through an intuitive and multilingual menu. BAMOWIZ converts analogue input signals (4-20 mA) and delivers clear information on its large digital and graphic (Bar Graph) display for an easy reading of measurements and thresholds status.

Settings are keyword protected.

BAMOWIZ has a flexibility of use for analysis of input data such as the display of level, volume or a specific parameter (pressure, temperature, turbidity, etc.). The keyboard on the touch screen allows you to set the measuring unit (Example:  $\mu\text{S}$ , Ohm,  $\Omega$ ,  $^{\circ}\text{C}$ , bar, etc.).

Flow-rate indicator and Totalizer with the frequency input: BAMOWIZ accepts pulse signal, for instance from BAMOFU sensors up to 10 kHz

To resume, BAMOWIZ allows:

- To choose the language
- To set the measurement range
- To choose the unit to display for each input
- To calculate and display the volume inside square or cylindrical tanks, or specific tanks (Linearization with 20 steps).
- To calculate and display the differential between inputs 1 and 2
- To set each of the 8 thresholds
- Assign thresholds to relay outputs (3 or 4 depending on model)
- Flow-indicator and Totalizer through the frequency input

## CODE NUMBERS & REFERENCES

Code	Reference	Model	Power supply
217 113	BAMOWIZ 213 E	Panel mounted	100...240 V AC 50/60 Hz
217 114	BAMOWIZ 213/24 E	Panel mounted	18...36 V DC
217 213	BAMOWIZ 213	Wall mounted	100...240 V AC 50/60 Hz
217 214	BAMOWIZ 213/24	Wall mounted	18...36 V DC

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## TECHNICAL FEATURES

User interface	Color touch screen, 4:3 format, resolution of 480 x 272 pixels
Languages	French - German - English - Spanish - Portuguese - Polish
Alphanumeric touch keyboard	Dedicated for each language
Displayed measuring units	Set on the the key board

### Input signals:

Analogue signal	2 Inputs for 4-20 mA, 2-wire, with supply to sensors 24 V DC, Max. 3 W, 120 mA (Ri: input load 50 Ω)
Frequency signal	1 Frequency input (0.04 Hz up to 10 kHz)

### Outputs:

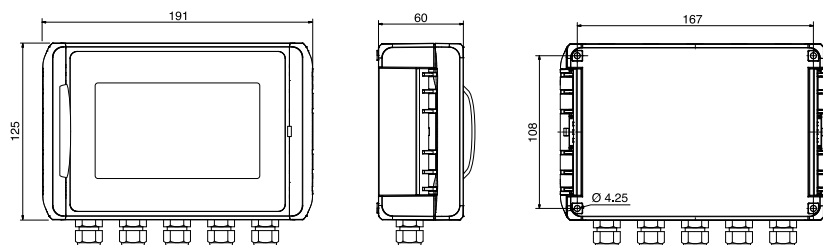
Relay outputs	Configurable NO contacts, potential-free (3 on the wall-mounted model or 4 on the panel-mounted model)
Switching power	3A / 250 V AC
Hysteresis	To set between 0 and 100 %
Delay	To set between 0 and 9999 secondes
Analogue output signal	1 output 4-20 mA (with or without linearization)
Communication	Serial interface RS485 MODBUS Option: Modbus TCP/IP (Ethernet) - RJ 45 connection (on panel mounted version)

### Other features:

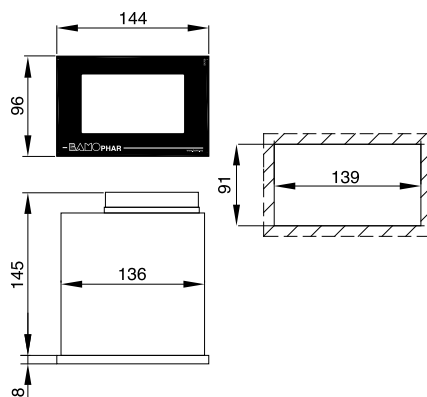
Thresholds	From 1 to 8 thresholds can be assigned to 3 relays (wall-mounted model) or 4 relays (panel-mounted model)
Linearization	Set with 20 points
Differential	[ input 1 - input 2 ]; Available on display, thresholds
Flow / Totalizer	Flow meter and totalizer via pulse/frequency input (range 0.04 Hz to 10 kHz)
Display	Graphical display (Bar Graph) of measurements Display of min. and max. values
Main power	100 ... 240 V AC 50/60 Hz or 18 ... 36 V DC
Consumption	Max. 10 W
Cable connections	Screw terminals
Mounting	Panel mounted 96 x 144 mm, front panel IP 65, connections on terminal blocks IP 40 Wall-mounted IP 65 enclosure, connections on terminal blocks with cable entries via 5 cable glands (PE 9)
Operating temperature	-10 ... +50 °C

**EC Conformity: The instrument meets the legal requirements of the current European Directives.**

## DIMENSIONS



Wall-mounted version



Panel mounted version

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