Turbidity display
BAMOWIZ TUR 442

- **Graphic color touch screen**
- **Turbidity measurement**
- **1 Turbidity sensor input**
- **1 analog output 0/4-20mA**
- **3 relays (thresholds, alarm)**
- **2 analog inputs 4-20 mA**

APPLICATIONS

The BAMOWIZ TUR allows real-time visualization and management of data measured by the digital turbidity sensor.

The areas of application are:
- Urban wastewater treatment
- Surface water monitoring
- Groundwater pumping monitoring
- Industrial discharge control

DESCRIPTION

When used with the TURBINUM turbidity sensor (see datasheet 442-02), the BAMOWIZ TUR enables continuous turbidity monitoring of water.

Specifically designed for the TURBINUM probe, the BAMOWIZ TUR offers local display and full signal management.
Equipped with an ergonomic touchscreen and an intuitive multilingual menu, it provides a user-friendly interface suitable for technical environments.

Its advanced features include:
- Real-time turbidity measurement display,
- Access to historical data over a 4-day period,
- Display of configured alarm thresholds,
- Configuration of 8 alarm thresholds distributed across 3 output relays,
- Transmission of the measured signal via a 4–20 mA analog output,
- Sensor calibration in NTU or mg/L,
- Two additional 4–20 mA analog inputs with 12 V sensor power supply, allowing the integration of additional measurements into the same display.
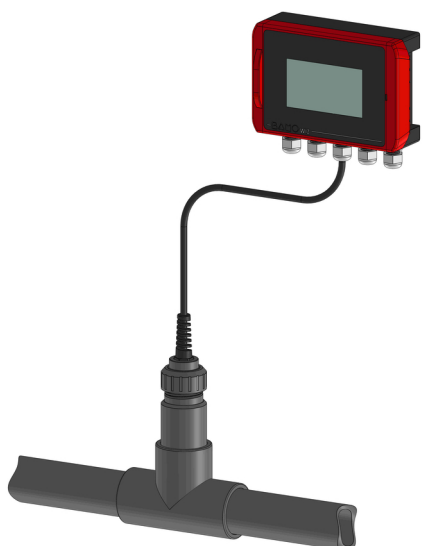
Thanks to its versatility, the BAMOWIZ TUR is a complete solution for turbidity monitoring and control in water treatment systems.

Example of a complete set

Displaying measurement history

CODE NUMBERS AND REFERENCES

Code	Reference	Designation
442 001	BAMOWIZ TUR wall mounted	Turbidity display
442 002	BAMOWIZ TUR panel mounted	Turbidity display

A complete set consists of the following elements:
- A BAMOWIZ TUR turbidity display
- The TURBINUM turbidity probe (see data sheet 442-02)
- An inline or immersion probe holder (see data sheet 442-02)
- An extension cable with connector for quick assembly and disassembly (optional)

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TECHNICAL FEATURES

Interface
Screen	Color touchscreen, 4:3 format
	Resolution of 480 x 272 pixels
Languages	French - German - English - Spanish - Portuguese - Polish
	Alphanumeric touch keyboard, dedicated for each language

Sensor inputs:
Digital	1 input for turbidity sensor
	Maximum distance between the sensor and its display: 100 meters
Analog	2 inputs 4-20 mA with 2-wire sensor power supply 12 VDC / max 2 Watt-166 mA - (RI input 50)

Outputs :
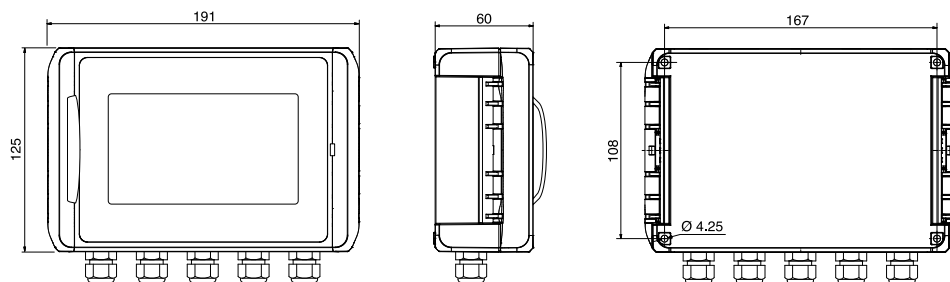|	
Output signal	1x 4-20 mA output
Contact relays	Configurable Normally Open contacts, potential-free
	wall-mounted version: 3x NO contacts
	panel-mounted version: 4x NO contacts
Switching capacity	3A / 250 V AC
Hysteresis	Adjustable from 0 to 100%
Time delay	Adjustable from 0 to 9999 seconds

Electrical specifications:
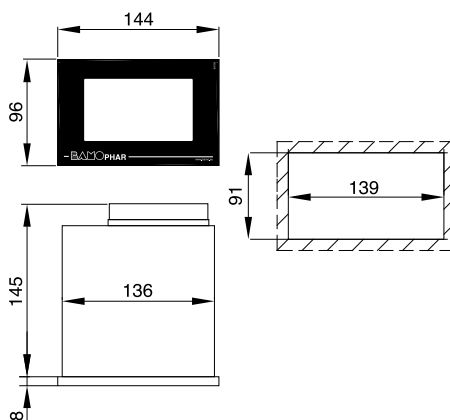|	
Power supply	100...240 V AC 50/60 Hz
Consumption	Max. 10 VA
Electrical connection	screw terminal block, 0.2 to 3.3 mm2
Cable entries	5 Cable glands (PE9)

Environment:
Protection rating	Wall-mounted enclosure: IP65 - ABS plastic
	Panel-mounting enclosure: front IP65, rear and terminal blocks IP40
Ambient temperature	-10...+50 °C

DIMENSIONS

Wall-mounted model

Panel-mounted model

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Non-contractual document: Subject to amendments due to improvements