Counter, Totalizer, Dosing controller BAMOWIZ DOZ





USER MANUAL



Counter, Totalizer, Dosing controller BAMOWIZ DOZ 30-03-2022 M-217.05-EN-AD

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SAFETY INSTRUCTIONS

- Installation, commissioning and maintenance must be carried out by gualified technicians.
- Only connect the device to the voltage specified in the technical features and label. • •
- Disconnect all power sources from the device during interventions or maintenance tasks.
- The operation of the device must be in accordance with and strictly limited to the applications, as mentioned further on and on data-sheet.

APPLICATIONS

BAMOWIZ DOZ is a programmable counter and totalizer as well as a dosing system. The setpoint (Dosing quantity) is permanently accessible from the main display, which makes it ideal for applications that require regular

adjustments. It accepts pulse signals from flow sensors operating in the range of 0.04 Hz to 10 kHz

DESCRIPTION

- The BAMOWIZ DOZ consists of two elements: A programmable monitor and a control unit.
- The BAMOWIZ DOZ converts the frequency (input signel) into a configurable physical quantity (m³, Liter, etc.)
- The graphic color touch screen facilitates settings through the menus and allows viewing of all parameters.

A dosing cycle may be started (or interrupted) from the control unit which supplies and directly controls a solenoid valve via the static output.



Controls of dosing start and stop can be remote from the control.

TECHNICAL FEATURES

User interface	Graphic color touch screen, size 4/3
	Resolution: 480 x 272 pixels
Languages	English - French - German - Polish - Portuguese - Spanish
Touch screen keyboard, alphanumeric	Dedicated for each language
Counter, Totalizer for pulse flow sensors	
Frequency input	Range from 0.04 Hz up to 10 kHz
Bounce-free counting	For dry contact (potential-free)
Relay outputs	3 N.O. contacts, to set; potential free
	Pulse mode or ON/OFF mode
Adjustable thresholds	Total of 8 thresholds to set and assigned to the 3 relays
	For the functions: Totalizer, counter or timer
Alarm delay	From 0 to 9999 s
Switching power	3 A / 250 V AC
Hysteresis	Adjustable from 0 to 100 %
Reset on Totalizer	Reset to zero of totalizer and number of cycles
Relay switching simulation	Manual test for each relay
1 Static output	Solenoid valve control (with an external power supply)
	230 V AC; Max. 400 W
	Version 24 V DC; Max. 40 Watt
	Switching power: max. 40 W
Monitor, power supply	100 240 V AC - 50/60 Hz
Consumption	5 VA Max.
Electrical connections	Screw terminals
Cable glands	Total: 5; PG 9
Mounting	Wall mount cabinet, IP 65 – ABS plastic
Ambient temperature limits	-10 +50 °C
EC Conformity: These devices meet the legal requi	rements of the current European Directives.

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CODE NUMBERS

217 310	BAMOWIZ DOZ Monitor, 230 V AC
217 315	BAMOWIZ DOZ Control unit, 24 V DC
217 316	BAMOWIZ DOZ Control unit, 24 / 230 V AC
-	

Note: Select the remote control unit according the voltage to supply to the solenoid valve.

DIMENSIONS





DESCRIPTION OF ICONS

















S1 S2 S3

HOME Return to alfanumeric display

SETTINGS Access to serial number and version of your BAMOWIZ Access to screen saver (set up available only in MODIFICATION MODE)

LANGUAGES Language selection

MENU Access to parameter settings

PADLOCK Open: means MODIFICATION mode Closed: means CONSULTATION (review) mode

RETURN Back to the previous screen

ARROWS Cursors to navigate within the menus

ON / **OFF** To enable (ON) or disable (OFF) settings of an entry

SAVE To save the settings

ESCAPE To cancel any modification on the input settings

RELAY STATUS S1, S2, S3 Display relays status and settings resume

CURSOR To navigate within the menus *Alternative display to Arrows in some menus*

SELECTION Scrolling through choices



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SCREEN SETTINGS

LANGUAGE SELECTION

Direct access to the language of your choice.

- From the main screen, go to MENU.
- Press "SETTINGS" to view the icon LANGUAGES
- Select your language, pressing the corresponding flag.

CONSULTATION (review) mode or MODIFICATION (set up) mode

CONSULTATION mode allows the end-user to review all settings. This mode corresponds to a closed padlock icon.

To change settings, you have to use the MODIFICATION mode. This mode is protected by a password: the last 4 numbers of the serial number.

Example : S/N : 20000-01 Password is: 0001

Note: Serial number of your BAMOWIZ is on the sticker on side of the cabinet. You can find it as well through the menu SETTINGS.

- From the main screen, go to MENU.
- Press the padlock icon and type the last four number of S/N.
- Pressing "OK" the BAMOWIZ is set in MODIFICATION mode (Open padlock)



In case of mistyping, the display shows "ERROR".

After 30 minutes, the BAMOWIZ reset automatically in CONSULTATION mode.

SCREEN SAVER

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Access from the menu SETTINGS (in MODIFICATION mode): allows to set the brightness of screen saver mode (it runs after 30 min of non activity)

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SETTINGS

MAIN DISPLAY: Viewing and setting Setpoint, Offset and Tempo





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ТЕМРО

Press the TEMPO button to enter a time in seconds. This is the maximum time determined by the operator to reach the setpoint.

When starting the dosage (pressing the green button of the remote unit) a countdown of the programmed duration (TEMPO) is carried out. In the case of exceeding the TEMPO value, the symbol "II" (pause) will flash on the screen and the color of the time bar will alternate between red and green:



It is recommended to set an alert threshold assigned to one of the relay output to send the information remotely (see § Threshold). In this case, the assigned relay will close if the setpoint is not reached at the end of the TEMPO.

Pressing the red RESET button on remote control unit, acknowledges the alarm and changes the status of the relay. To access the following parameters, the padlock must be unlocked. Enter the password, then press OK

FREQUENCIES

Hereafter: Details of the steps to set the frequency input: Go to the menu "FREQUENCY"

Measurement unit	Enter the unit of measurement through the keyboard (example: cm ³)
Corresponding frequence to 1 measurement unit	Enter the frequency corresponding to the measurement unit: Fréquence $? = $ for 1 Unit
Pulse value	Result of calculation from values entered in frequency and unit
Bounce-free counting	This function avoid counting any bounces of a dry contact when it is activated. The filter blocks frequencies above 4 Hz; Use this function only for dry contact signals with frequency Max. < 4 Hz. Select ON to enable this function Select OFF to disable this function (Default value: OFF)





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THRESHOLDS					
Hereafter: Detail of the steps to set the thresholds (Maxir	num 8):				
To add a threshold, click on the symbol " + " then click on the threshold to set it up. Each threshold can be assigned to relay or S1, or S2, or S3. These are open by default and close when energized.					
Designation	Type the threshold name with the keyboard				
Select the measurement parameter:	3 possibilities: - Alarm TEMPO - CYCLES - TOTALIZER				
	Alarm TEMPO				
Use this mode to assign a threshold to the TEMPO (conf	figured from the main display - see § SETTINGS).				
Threshold action	To assign the threshold to one of the relay or S1, or S2, or S3.				
Example: Set up TEMPO at 10 seconds; After a dosing is initiated, if the counted volume does not reach the setpoint within the 10 seconds, the "Alarm TEMPO" function will trigger and the assigned relay will close.					
	CYCLES				
Use this mode to set an alert when the number of cycles	reaches the value recorded in this menu.				
Pulse mode ?	On / OFF				
	Select OFF for a "threshold" mode Note: The contact will remain closed until operator acknowledges				
	Select ON to use "pulse" mode If the selection is ON, enter the pulse duration in seconds in the menu				
Energized	Enter the number of cycles required to energize the relay				
Threshold action	To assign the threshold to one of the relay or S1, or S2, or S3.				
	TOTALIZER				
Use this mode to set an alert when the totalizer reaches	the set volume				
Pulse mode ?	ON / OFF				
	Select OFF for a "threshold" mode Note: Contact will remain closed until operator acknowledges				
Select ON to use "pulse" mode If the selection is ON, enter the value of the pulse duration in seconds in the menu "Energized duration".					
Energized	Saisir a volume				
Threshold action	To assign the threshold to one of the relay or S1, or S2, or S3.				
TEST OF RELAYS					
This menu allows to manually test eacch relay. When entering this menu, by default, the relays are at rea mode.	st. To test a relay, press the SELECT key to switch from Rest mode to I	Energized			
TOTALIZER RESET					
Use this menu to reset the totalizer or/and cycles count, i	to zero, through the key RESET.				
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