Dissolved oxygen monitor BAMOPHOX 451





Wall mounting monitor

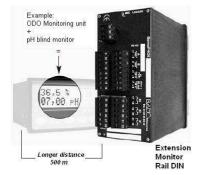
- Alphanumeric back lighted LCD display
- Friendly using menu
- Data-logger on MMC card
- 1 input for sensor AQUAPLUS
- Scales: 0 to 500% or in mg/L
- 2 analogical outputs 0/4-20mA, galvanic insulated
- 3 relay outputs
- 1 relay output for alarm on system or for timer
- 1 input to set on stand-by the regulation
- Wall mounting IP 65 or panel mounting
- OPTIONS:

Extension for 2nd measurement signal

EXTENSION TERMINAL

An extension terminal (wall or panel mounting):

- Allows a second measurement parameter (pH, Flow, Conductivity, etc.)
- Data from this blind device are displayed on the main device (second line display).
- A 4 wires shielded cable is used to link both devices (longest length is 500m)
- The data logger is shared between both BAMOPHOX.
- May be fitted inside a cabinet on a rail DIN.



DESCRIPTION

BAMOPHOX 451 in use with the sensor AQUAPLUS offers a high grade measurement and survey of dissolved oxygen for WWTP, pharmaceutical industry, fish breeding, etc.

Mixing different built-in programmes for regulation, thresholds, temperature compensation, and alarms, BAMOPHOX 451 offers a high flexibility on use to the operator.

To allow a quick and easy diagnostic after configuration a simulation program is builtin with direct actuation on contacts outputs and analogical outputs.

A copy of the signal is available on the 4-20 mA output; it is galvanic insulated; it can be set up within the complete measuring range. Temperature measurement is also available on a 4-20 mA output.



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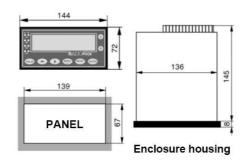
OXY

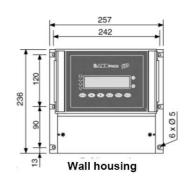
451-02

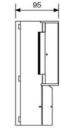
TECHNICAL FEATURES

Indication: L Programming: 8	Back lighted - 2 lines of 16 alphanumerical characters ; 9.2 mm high ED alarms status Brush buttons keyboard on front face - Keyword protected		
Programming: 8			
	Ripush buttons keyboard on front face - Keyword protected		
Measuring range: 0	8 push buttons keyboard on front face - Keyword protected		
	0 to 500% or mg/L		
Accuracy Input DO: +/- 0.1% from 0 to 200 %; +/-1% from 200 to 500 %			
Ir	nput temperature: +/- 0.3 %		
Input signal: F	For sensor AQUAPLUS, screw connectors		
Temperature compensation: A	Automatic: input for 1 sensor Pt 100 Ohm/0℃, range 0+100℃		
l N	Manual: programming in the menu temperature between 0 and 100℃		
	4 closing contacts (Silver alloy), voltage free		
lr.	nitial resistance 100 mΩ as a maximum (voltage drop 6 V DC 1 A)		
	Rated at 831 V AC / 3 A / 277 V AC ; 90 W / 3 A / 30 V DC		
	Switching capacity (minimum) 100 mA, 5 V DC (depending of switching frequency, ambient conditions, accuracy)		
	Mechanical life time (minimum) 5 x10 ⁶ operations (180 commutation/min)		
	Electrical life time (minimum) 2 x10 ⁵ (20 comm./min) [3 A, 125 V AC], [3 A, 30 V DC]		
	and 10 ⁵ (evaluated charge) for 3 A, 125 V AC		
	Thresholds: 3 programmable independent thresholds - with adjustable hysteresis 0100% - and adjustable timer		
	rom 0 to 9999 s		
	On/Off Regulation: High and low proportional bandwidth, high and low dead zones		
	PID regulation: proportionality 0200%, - Integrant and Derivative: 0999 second		
	Common alarm signal for:		
	System malfunction Temperature out of range		
	Pt 100 Ω dysfunction or probe cleaning function		
	Signal, over-range or opened loop		
	Regulation on standby, relay outputs inhibited, analogical outputs stand on last values		
	Frequency and duration settings, with regulation inhibited and analogical outputs standing on last values		
Measurement output: 0	0/4-20 mA (maxi 600 Ω), galvanic insulated		
	0/4-20 mA (max 600 Ω), scalable on 0100℃, galvanic insulated		
	Simulation through the menu on measurement, temperature, PID and relay outputs		
	330 V AC / 50-60 Hz [other on request] - Consumption 10 VA		
	Panel mounting, IP65, 72 x 144 mm, connections on screw terminal IP40		
	Nall mounting, IP65, cable glands, connections on screw terminal		
	Cycle average measurement record, with a programmable period, 150000 records maxi on MMC (multi-media-card) /		
	External driver necessary		

DIMENSIONS







CODE NUMBERS AND REFERENCES

Code	Reference	Description
451350	BAMOPHOX 450 E LOG BUS	Panel mounting 144 x 72 / RS422 + logger - IP 65 front panel - screw terminal IP40
451450	BAMOPHOX 450 M LOG BUS	Wall mounting / RS422 + logger - IP 65 - cable glands, internal screw terminals



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