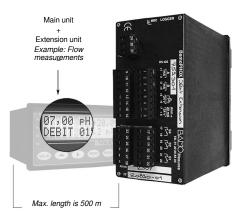
pH/mV meter BAMOPHOX 106



Panel mounting



Wall mounting



Rail DIN mounting, only for extension

- Programmable as pH or ORP meter (mV)
- Alphanumeric back lighted LCD display
- Adjustable scales:
 - 0 14 pH; ± 1000 mV
- Temperature compensation Automatic or manual
- 2 analogue outputs 0/4-20mA
- 3 relay outputs (independent)
- 1 relay as system alarm or for timer output
- OPTIONS:

RS 422 /J-BUS + Data Logger Extension for 2nd measurement input

APPLICATIONS

pH or ORP measurements, alarms and regulation for water, chemical and industrial applications.

Examples:

- Electroplating industry
- Water treatment for process
- WWTP (e.g. neutralization)
- Groundwater or runoff water survey
- Regulation process in swimming pool, spa, fish tank
- Alarms on cooling plant (NH₃)

DESCRIPTION

BAMOPHOX 106 offers high flexibility on use mixing different built-in menus for regulation, thresholds, temperature compensation, and alarms. The 2 lines back lighted display, 16 alphanumerical characters, gives an easy reading.

It also displays the configuration menu and settings of thresholds, analogical outputs, operation data modes, calibration steps. To allow a quick and easy diagnostic after configuration a simulation program is built-in with direct actuation on contact outputs, analogical outputs and PID regulation. A copy of signal from 4-20 mA output can be set up within all the range of measurement. Temperature measurement is also available on a 4-20 mA output.

An extension terminal (wall, panel mounting or DIN rail mounting):

- Allows a second measurement parameter (Chlorine, Conductivity, Flow, etc.)
- Data from this blind unit are displayed on the main unit (second line display).
- Options RS422 and Data Logger are shared between both BAMOPHOX
- For cabinet, we propose in addition, a rail DIN mounting version for this Extension Terminal

TECHNICAL FEATURES

End-user interface

Displayed information: Menu

Measurement Temperature

Display: Back lighted

2 lines of 16 alphanumerical characters

Height: 9,22 mm LED alarms status

Configuration: 8 push buttons keyboard on front face

Keyword protected

Scales:

Indication:

pH-meter configuration 0 to 14 pH / ± 1000 mV ± 1000 mV mV-meter configuration \pm 0,03 pH or \pm 3 mV Accuracy:

Input impedance $>10^{13} \Omega$

Screw connector on wall mounting model; coaxial on others

Temperature compensation

Sensor signal input:

Automatic Input for a sensor Pt 100 Ohm 3 wire, range 0 to 100°C Manual

Manual from 0 to 100°C

Relay outputs 4 closing contacts (Silver alloy), voltage free

Thresholds programmable 3 independent thresholds

Adjustable hysteresis from 0 to 100 % Adjustable timer from 0 to 9999 sec

Output relay (S4) Common alarm signal for (simultaneously)

- Too long injection - Temperature ... - pH > 14 or opened measuring loop

- Sensor Pt 100 Ω dysfunction or probe cleaning function

Contact Initial resistance 100 mΩ max. (voltage drop 6 V DC 1 A)

Switching power 831 VA 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)

5 x106 operations (180 commutation/min) Mechanical life time (minimum)

Electrical life time (as a minimum) 2 x105 (20 comm./min) for 3 A 125 V AC, 3 A 30 V DC

105 (estimated rate) for 3 A 125 V AC

ON/OFF Regulation Adjustable cycle time from 0 to 9999 s

High and low proportional bandwidths

High and low dead zones

PID Regulation Adjustable proportionality from 0 to 200%

Integrant and Derivative: 0 to 999 s

Calibration sequence Relay outputs inhibited

Analogical outputs standing on latest values

Settings of frequency and duration Cleaning program

Relay outputs inhibited, analogical outputs standing on latest values

Measurement output 0/4-20 mA (max. 600 Ω) proportional to measurement 0/4-20 mA (max. 600 Ω), scaling from 0 to 100°C Temperature output / PID

Simulation through the menu on measurement, temperature, PID and relays outputs Program Testing

230 V AC / 50-60 Hz [other on request] - Consumption 10 VA Main power supply

Models Panel mounting, IP65, 72 x 144 mm, wiring on screw terminal IP40

Wall mounting, IP65, cable glands, wiring on screw terminal

OPTION (RS 422 + Data Logger)

Interface RS422 output, J-BUS link, binary slave mode, 2400 to 9600 bauds

Data Logger Record of cycle average measurement

150 000 records max. on memory card, reading on external driver



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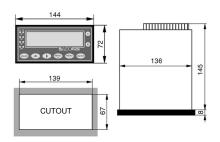
pH/mV meter **BAMOPHOX 106**

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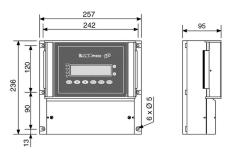
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DIMENSIONS

Extension terminal: Dimensions are identical to the panel or wall mounting models







Wall mounting version

CODE NUMBERS AND REFERENCES

Code	Reference	Description
106 500	BAMOPHOX 106 E	Panel mounting 72 x 144 - IP 65 front panel
106 501	BAMOPHOX 106 E/A	Panel mounting 72 x 144 / Extension blind monitor
106 503	BAMOPHOX106 D/A	DIN Rail mounting / Extension, blind monitor
106 550	BAMOPHOX106 E LOG BUS	Panel mounting 72 x 144 / RS422 + logger - IP 65 front panel
106 800	BAMOPHOX106 M	Wall mounting - IP 65
106 801	BAMOPHOX106 M/A	Wall mounting - IP 65 / Extension, blind monitor
106 850	BAMOPHOX106 M LOG BUS	Wall mounting - IP 65 / RS 422 + LOGGER - cable glands