pH/mV Meter BAMOPHAR 107



Panel mounting



Wall mounting



Panel mounting unit + Extension unit

- Color touch screen
- 2 existing scales:

0... 14 pH or ±1000 mV

- Temperature compensation: Automatic or manual
- 2 outputs 0/4-20mA (pH and T °C)
- 4 relays (Thresholds, alarm and/or regulation)
- Options:

RS 422 /J-BUS + LOGGER Extension terminal for 2nd measuring parameter

APPLICATIONS

Measurement of pH or ORP, alarms and/or regulation for water treatments, chemical industries, industrial applications.

Example

- Electroplating industry
- Processed water treatment
- wastewater treatment (e.g. pH neutralization)
- Groundwater or runoff water survey
- Swimming pool pH regulation (or spa or fish tank)
- Alarming on cooling plant (NH₃)
- Etc

DESCRIPTION

The device is equipped with a color touch screen for the display of a multilingual menu friendly and intuitive. It provides easy reading of measurement, temperature and state of the thresholds. It displays a menu with all parameters for configuration of analogue outputs, thresholds and regulation mode. In order to facilitate its commissioning, a programming menu can simulate the measurement, acting on the measurement analog outputs and P.I.D, as well as on the thresholds.

Analogue output reflects the measurement and may be scaled all along the range. Temperature analogue output is available as well as a 4-20 mA signal.

A complete measuring system includes:

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- pH/mV-meter BAMOPHAR
- One pH or ORP electrode (data-sheet 150-01/03)
- One electrode holder (data-sheets 130- to 145-)
- Accessories: pH/ORP cable, connectors, buffers (data-sheet 160-01)
- Option: Temperature probe (Data-sheet 150-02)

For any information and special request: please contact us.

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

- Allows a second measuring parameter (pH, flow-rate, conductivity, etc.)
 Data from this blind unit are displayed on the main unit
- Connected to main unit with 4 wire shielded cable (Cable length between both devices: max. 500 m)
- RS422 and Data Logger of main unit are shared between both units



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pH/mV Meter BAMOPHAR 107

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TECHNICAL FEATURES

End-user interface Color touch screen 4.3", resolution 480x272 pixels

Display of measurements, menus, temperature, relay status

Configuration - Keyword protected

Measuring scales 0... 14 pH as pH-meter or ± 1000 mV as mV-meter

±0.03 pH or ±3 mV Accuracy

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

For coaxial connector (9054) on panel and rail mounting devices Sensor signal input

Screw connector on wall mounting devices

Temperature compensation

Input for sensor Pt 100 Ω at 0 °C, range 0 to 100 °C Automatic

Manual From 0 to 100 °C, by configuration

Relay outputs 4 contacts N.O., voltage free

Configurable thresholds S1, independent threshold, to set up for measurement or temperature

S2, independent threshold, to set up for measurement or temperature

S3, independent threshold, to set up for measurement or temperature or external function

S4, threshold, to set up for alarming function

Too long injection - Timer exceeded

pH value out of range Temperature sensor defect or electrode cleaning mode

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

Switching power 90 W / 3 A / 30 V DC

831 VA AC / 3 A / 277 V AC

Switching capacity (min.) 100 mA, 5 V DC (100 mA, 5 V DC (variable according to switching frequency, environmental conditions and

accuracy).

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 routine Relay outputs inhibited, Analogue outputs on standby at latest values

Auto-cleaning menu Settings of frequency and duration, relay outputs inhibited, analogue outputs on standby at latest values

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

0/4 - 20 mA (max. 600 Ω) proportional to measurement Measurement output

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

This output is not available when PID regulation function is operating.

Main power supply 230 V AC / 50-60 Hz (others on request) - Consumption 10 VA

Panel mounting, 96x144 mm, Front IP65, rear IP40 Models

Wall mounting, IP65, cable glands

-10 ... +70 °Č Storage temperature -5 ... +50 °C Operating température

OPTION (RS 422 + Logger)

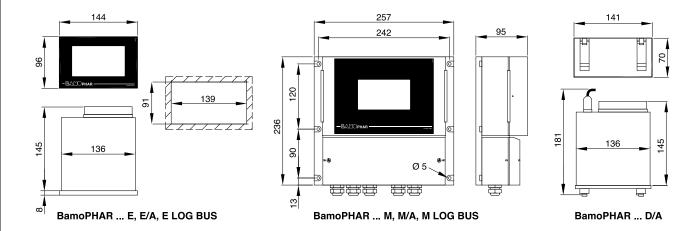
RS422 output, J-BUS link - Binary slave mode - 2400 to 9600 bauds Interface

Record of cycle average measurement - 150 000 records max. on memory card. Data Logger

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



DIMENSIONS



CODE NUMBERS AND REFERENCES

Code	Reference	Description
107 500	BAMOPHAR 107 E	Panel mounting 96x144 mm - Front IP 65; Rear IP 40
107 501	BAMOPHAR 107 E/A	Panel mounting 96x144 m- Extension, blind monitor / IP40
107 503	BAMOPHAR 107 D/A	Rail mounting - Extension, blind monitor / IP40
107 505	BAMOPHAR 107 E LOG BUS	Panel mounting 96x144 m - RS422 + LOGGER - Front IP 65; Rear IP 40
107 520	BAMOPHAR 107 M	Wall mounting, IP 65, cable glands
107 521	BAMOPHAR 107 M/A	Wall mounting - Extension, blind monitor - IP 65, cable glands
107 524	BAMOPHAR 107 M LOG BUS	Wall mounting - RS 422 + LOGGER - IP 65, cable glands



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