Data monitor – Data recorder
BAMOPHOX 216

- **Alphanumeric back lighted LCD display**

- **Parameters and programming:**
    - **Input sensor signal, scale**
    - **Measuring range**
    - **Displayed unit (m, cm, %, ppm, mg, g, °C)**
    - **Scale from 0,001 to 9999**

- **Wall mounting IP 65 or panel mounting**

- **3 relay outputs, 2 analogical outputs 4-20mA**

- **1 alarm output on over-ranging and temperature**

- **OPTIONS:**
    - **Built in data logger (on MMC card)**
    - **RS 422 Interfacing, J-BUS protocol**
    - **Extension for 2nd measurement input**

Wall mountig *(main device)*

Panel mounting *(main device)*

DESCRIPTION

The BAMOPHOX 216 offers high flexibility on use mixing different built-in programmes for regulation, thresholds, temperature compensation, and alarms. The 2 lines back lighted display, 16 alphanumerical characters, provides an easy measurement and temperature reading in any conditions. It also displays the configuration menu and settings of thresholds, analogical outputs and operation data modes.
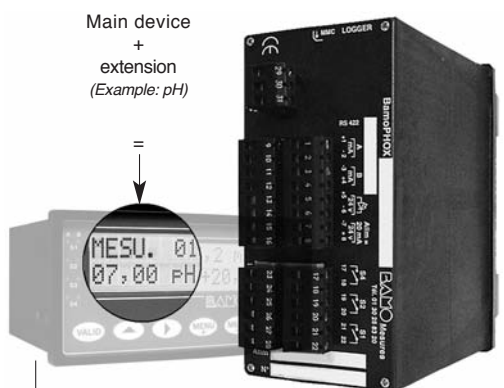
To allow a quick and easy diagnostic after configuration a simulation program is built-in with direct actuation on contacts outputs and analogical outputs. A copy of the signal is available on the 4-20 mA output; it is galvanic insulated; it can be set up within the complete measuring range. Temperature measurement is also available on a 4-20 mA output.

Main device
+
extension
(Example: pH)

=

Maximum cable length: 500 meter

DIN Rail mounting *(extension)*

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 options RS422 and the data logger are shared between both BAMOPHOX.
- May be fitted inside a cabinet on a rail DIN.

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TECHNICAL FEATURES

Displayed parameters:	Measurement values - Configuration Menu - Temperature value
Display:	Back lighted - 2 lines of 16 alphanumerical characters ; 9.2 mm high
Indication:	LED alarms status
Programming:	8 push buttons keyboard on front face - Keyword protected

Measuring range
Unit:	m, cm, %, ppm, mg, g, °C [none]
Scale:	ranging through 4 digits from 0.001 to 9999, sliding decimal point

Input signal:	4-20 mA
Temperature sensor input:	Pt 100 Ω /0°C, range -20 …+160°C
Relay outputs:	4 closing contacts (Silver alloy), voltage free
Thresholds:	3 programmable independent thresholds - with adjustable hysteresis 0…100% - and adjustable timer from 0 to 9999 s
Switching power:	250 V AC / 3 A , 30 V DC / 3 A
Switching capacity:	100 mA, 5 V DC (minimum)
4th relay output (S4):	Alarm
Measurement output:	0/4-20 mA (maxi 600 Ω), galvanic insulated
Temperature output:	0/4-20 mA (max 600 Ω), scalable, galvanic insulated

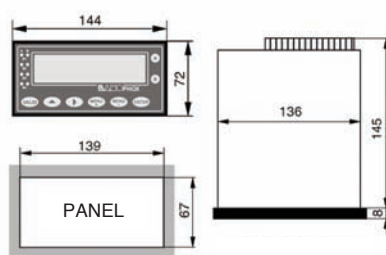|	
Main power supply:	230 V AC / 50-60 Hz [other on request] - Consumption 10 VA
Models:	Panel mounting, IP65, 72 x 144 mm, connections on screw terminal IP40
	Idem DIN Rail mounting, only for blind monitor
	Wall mounting, IP65, cable glands, connections on screw terminal

OPTION (RS422+ Logger)

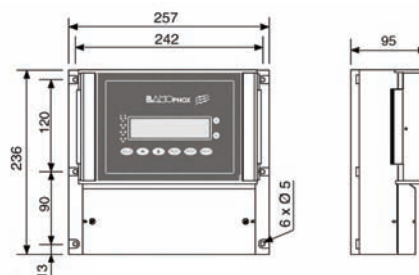|	
Communication:	RS422 output, J-BUS link, binary slave mode, 2400 to 9600 bauds
Data Logger:	Cycle average measurement record, with a programmable period, 150000 records maxi on MMC (multi-media-card) / External driver necessary

CE Mark:	According to EC directives (72/23/EEC) and
	EMV Guidelines: RL 89/336/EEC

DIMENSIONS

Extension terminal:
identical to the panel
or wall mounting
BAMOPHOX

Panel mounting instrument

Wall mounting instrument

CODE NUMBERS AND REFERENCES

Code	Reference	Description
216 000	BAMOPHOX 216 E	Panel mounting 72 x 144 - IP 65 front panel - screw terminal IP40
216 001	BAMOPHOX 216 E/A	Panel mounting 72 x 144 / Extension blind monitor - screw terminal IP40
216 003	BAMOPHOX 216 D/A	DIN Rail mounting / Extension, blind monitor - screw terminal IP40
216 050	BAMOPHOX 216 E LOG BUS	Panel mounting 72 x 144 / RS422 + logger - IP 65 front panel - screw terminal IP40
216 100	BAMOPHOX 216 M	Wall mounting - IP 65 - cable glands, connections on screw terminal
216 101	BAMOPHOX 216 M/A	Wall mounting - IP 65 / Extension, blind monitor - cable glands, connections on screw terminal
216 150	BAMOPHOX 216 M LOG BUS	Wall mounting - IP 65 / RS 422 + LOGGER - cable glands, connections on screw terminal

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