

Monitor - Recorder BAMOPHAR 216



Wall mounting unit

Unit to choose:

- m
- cm
- %
- ppm
- mg
- g
- <none>
- °C



Panel mounting unit

- Color touch screen
- 1 Sensor input, 0/4-20 mA
Display without or with measuring unit:
m; cm; %; ppm; mg; g; °C; _ (none)
- 1 Pt100 sensor input
- 2 Outputs 0/4-20 mA (measurement & T °C)
- 4 Relay outputs (thresholds, alarm and/or regulation)
- **OPTIONS:**
RS 422 /J-BUS + LOGGER
Extension terminal for a 2nd measurement parameter

APPLICATIONS

This monitor allows a local control of a process as well as the recording of measurements with the option logger.

DESCRIPTION

BAMOPHAR 216 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. The device displays all the menu to set up analogue outputs, thresholds and function modes. In order to facilitate its commissioning, a programming menu can simulate the measurement, acting on the measurement analogue outputs and on the thresholds.

The analogue output, copy of measurement, may be scaled on any range. Temperature measurement is available on the second analogue output 4-20 mA.

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

- **Allows a second measurement parameter (pH, flow, conductivity, etc.)**
(Displays and settings are achieved through the main unit)
- Connected with a 4 shielded wire cable to the main unit
(Max. length is 500 m)
- Extension terminal uses the RS 422 and logger device of main unit

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BAMOPHAR 216

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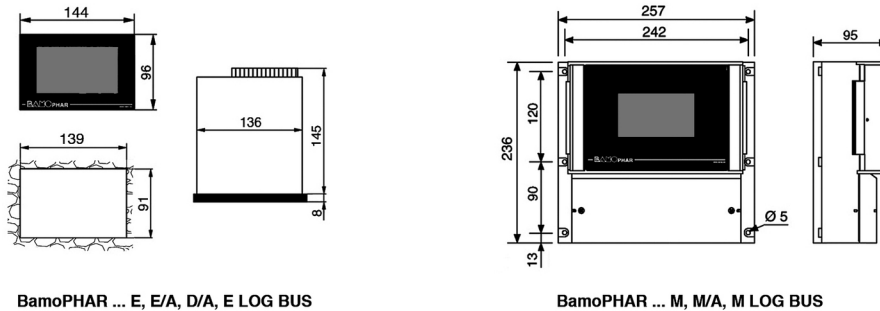
TECHNICAL FEATURES

End-user interface	Color touch screen 4.3", resolution 480x272 pixels Display of measurements, menus and status of relays Configuration - Keyword protected
Measuring scales	To configure with 4 digits (-9999 to +9999) according the sensor in use
Measurement units	m; cm; %; ppm; mg; g; °C; _ (none)
Accuracy	According to the sensor in use
Sensor input	For transmitter with 0/4-20 mA output
Temperature sensor input	For a Pt 100 Ω sensor, 3-wire, measurement and reading from -20 to 160 °C
Relay outputs	4 contacts N.O., potential free
Thresholds set up	S1, independent, dedicated to measurement or to temperature S2, independent, dedicated to measurement or to temperature S3, independent, dedicated to measurement or to temperature or, to external function S4, threshold in alarm function, measurement out of range or broken loop
Hysteresis	Adjustable from 0 to 100 % for S1, S2 and S3
Contact Initial resistance	100 m Ω 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 (min.)	100 mA, 5 V DC (variable according to switching frequency, environmental conditions and accuracy)
Mechanical lifetime (min.)	5 x 10 ⁶ operations (180 op./min)
Electrical lifetime (min.)	2 x 10 ⁵ (at 20 op./min) for 3 A, 125 V AC; 3 A, 30 V DC - 10 ⁵ (estimated load) for 3 A 125 V AC
Measurement output	0/4-20 mA (max. 600 Ω) proportional to measurement
Temperature output	0/4-20 mA (max. 600 Ω); expandable to any scale, to match external PLC settings
Main power supply	230 V - 50/60 Hz (others on request) - Consumption 10 VA
Models	Panel mounting, 96x144 mm; Front IP65; Rear IP40 Wall mounting, IP65, cable glands

OPTION (RS 422 + 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.

DIMENSIONS



CODE NUMBERS AND REFERENCES

Code	Reference	Description
216 200	BAMOPHAR 216 E	Panel mounting 96x144 mm - Front IP 65; Rear IP 40
216 201	BAMOPHAR 216 E/A	Panel mounting 96x144 m- Extension, blind monitor; Front IP 65; Rear IP 40
216 203	BAMOPHAR 216 D/A	DIN Rail mounting - Extension, blind monitor; IP40
216 250	BAMOPHAR 216 E LOG BUS	Panel mounting 96x144 mm - RS422 + LOGGER - Front IP 65; Rear IP 40
216 300	BAMOPHAR 216 M	Wall mounting, IP 65, cable glands
216 301	BAMOPHAR 216 M/A	Wall mounting - Extension, blind monitor - IP 65, cable glands
216 350	BAMOPHAR 216 M LOG BUS	Wall mounting - RS 422 + LOGGER - IP 65, cable glands

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