Monitoring and control of disinfection process BAMOPHAR 194



Panel mount version



Wall mount version



Panel version plus Extension unit

- Color touch screen
- Input for 1 sensor 4-20 mA or 0-2 V
- Different scales for different sensors: Free & total chlorine, chlorine dioxide Ozone, hydrogen peroxide, peracetic acid
- 1 Input for Pt100 sensor
- 2 Outputs 0/4-20mA (ppm or g/l and °C)
- 4 relays (Thresholds, alarm and/ or regulation)
- OPTIONS : RS 422/ J-BUS + LOGGER Extension terminal for 2nd measuring parameter

APPLICATIONS

BAMOPHAR 194 is designed for measurement and regulation of disinfectants (free chlorine, total chlorine, chlorine dioxide, ozone, hydrogen peroxide, peracetic acid) in process of water and industrial applications.

EXAMPLES :

- Industrial water
- Drinkable water
- Swimming pools
- Hot sanitary water
 CIP (clean in place)

DESCRIPTION

BAMOPHAR 194 is equipped with a color touch screen for multilingual display of a user-friendly and intuitive menu.

It provides an easy reading of the measurement, temperature and status of thresholds.

It displays the menu for setting the analog output, thresholds and operating mode. To facilitate commissioning, a programming menu is used to simulate the measurement, acting analogue outputs and P.I.D, as well as thresholds.

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

BAMOPHAR 194 offers high flexibility on use through configurations of parameters for regulation, thresholds, temperature compensation and alarms.

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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TECHNICAL FEATURE	S		
End-user interface	Color touch screen 4.3", resolution 480x Display of measurements, menus, tempe Configuration - Keyword protected		
Measuring scale	Configuration according to sensor type (f	from 0.001 to 9999 ppm or g/l)	
Accuracy Sensor signal input	Report to sensor own features For amperometric sensors, 4-20 mA 2 w or 0-2 V 4 wire technique	ire technique	
Temperature compensation	Amperometric sensors supplies a tempe Through an integrated temperature sens Manual mode on BAMOPHAR when Pt1	or Pt 100 Ω, 3-wire.	
Relay outputs Configurable thresholds	4 contacts N.O., voltage free 2 Thresholds, independent,, to set up for 1 Threshold to set up for external contact 1 threshold, to set up for alarming function		
Contact, initial resistance Switching power	$100~m\Omega$ max. (voltage drop 6 V DC 1 A) 831 VA AC / 3A / 277 V AC ; 90W / 3A / 3	30 V DC	
Switching capacity (min.) Mechanical lifetime (min.) Electrical lifetime (min.)	5 x 10 ⁶ operations (180 op./min)	witching frequency, environmental conditions, accuracy 3 A 30 V DC - 10^5 (estimated load) for 3 A 125 V AC)
On/Off Regulation	Adjustable cycle time from 0 to 9999 s, High and low proportional bandwidths, hi	igh and low dead zones	
PID Regulation Calibration routine	Adjustable proportionality from 0 to 2009 Relay outputs inhibited, Analogue output		
Measurement output	0/4-20 mA (max. 600 $\Omega)$ proportional to r	neasurement	
Temperature output / PID	0/4-20 mA (max. 600 Ω), scaling 0 100	0°C	
Program Testing	Simulation through the menu on measurement, temperature, PID and relays output		
Main power supply	230 V AC / 50-60 Hz (others on request)	- Consumption 10 VA	
Models	Panel mounting, 96x144 mm, Front IP65 Wall mounting, IP65, cable glands	- Rear IP40	
OPTION (RS422 + Logger) Interface Data Logger	RS422 output, J-BUS link - Binary slave Record of cycle average measurement 150 000 records max. on memory card.	mode - 2400 to 9600 bauds	
BAM		Monitoring and control of disinfection process	CL
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DIMENSIONS



CODE NUMBERS AND REFERENCES

Code	Reference	Description
194 025	BAMOPHAR 194 E	Panel mounting 96x144 mm - Front IP 65; Rear IP 40
194 026	BAMOPHAR 194 E/A	Panel mounting 96x144 m- Extension, blind monitor - IP40
194 027	BAMOPHAR 194 D/A	Rail mounting - Extension, blind monitor - IP 40
194 032	BAMOPHAR 194 E LOG BUS	Panel mounting 96x144 m - RS422 + LOGGER - Front IP 65; Rear IP 40
194 030	BAMOPHAR 194 M	Wall mounting, IP 65, cable glands
194 031	BAMOPHAR 194 M/A	Wall mounting, IP 65, cable glands - Extension, blind monitor
194 033	BAMOPHAR 194 M LOG BUS	Wall mounting, IP 65, RS 422 + LOGGER; cable glands



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