

MARITIME GAS ALARM CONTROL PANEL BS-420MG

AutroSafe Product Datasheet

Features

- Panel specifically designed for maritime gas detection
- Supports all Autronica-approved gas detectors
- AutroFieldBus for power supply and PowerLoop connection
- User-friendly display and operator controls
- Backlit operational buttons. Text display suitable for full darkness operation
- Surface mounting on wall
- Rack mounting in standard 19" cabinets
- Conforms to CE standards
- Designed to meet maritime SOLAS requirements (Safety Of Life At Sea)

Description/Application

BS-420MG is a maritime gas alarm control panel with full operation capabilities. All gas alarm handling and system features can be controlled and monitored from the panel. Note that the panel cannot be used for detection of fires.

The panel communicates with other system units on the Ethernet-based local area network, AutroNet. The maximum number of system units supported by AutroNet depends on the type of system. In a standard system the maximum number is 64.

The panel can accommodate up to a maximum of 12 I/O modules. All modules are easily plugged onto each other on a standard mounting rail inside the unit.

The panel serves as an operating panel for one or several defined *operation zones*.

The panel provides connections for 2 Ethernet ports and 2 USB host ports.

The panel is menu operated on a 16-line display, with 40 characters per line. A printer is available as an option.

I/O Modules

- Output Module (BSB-310) with 4 monitored outputs
- Output Module (BSJ-310) with 8 open collector non-monitored outputs
- Input Module (BSE-310) with 4 monitored inputs
- Input Module (BSE-320) with 8 non-monitored inputs (galvanically isolated)



Indicators

- 16 x 40-character alphanumeric display
- Alarm, More Events, Ext. Alarm, Fault, Function Disabled, Testing, System Fault, Power, Function Delayed, Alarms Fault, Ex. Alarm Fault, Alarms Disabled, Ex. Alarm Disabled, Detector Inhibit, Local Mode.
- Internal buzzer

Operator Controls

- More Events, Mute Panel, Silence Alarms, Reset System, Menu, Close Window
- Keyboard with alphanumeric characters and scroll function
- Separate buttons for menu operation
- Backlit buttons and text

Technical specifications	
Dimensions (mm)	350 x 350 x 161
Weight (kg)	8,5 kg
Materials	Steel cabinet, ABS/PC moulded front
Mounting	Surface or flush mounting
Protection class	IEC-529 / IP32
Operating Temperature	-5°C to +70°C
Storage Temperature	-40°C to +70°C
Humidity non-condensing	Maximum 95% RH
Power supply	Nom. 27,2V DC (18-32V DC)
Current consumption	156mA/27,2VDC (idle) Max. 340mA/27,2VDC (lamp test)
Capacity – Loop Driver Modules and I/O Modules	Maximum 12 modules
Gas detector connection	By use of PowerLoop
Inputs	By use of BSE-310 and BSE-320
Outputs	By use of BSB-310 and BSJ-310
Communication	AutroNet (Ethernet-based local area network)
Communication Ports	<ul style="list-style-type: none"> • 2 Ethernet ports • 2 USB host ports (max. 100mA) • 1 RS-232, RS-422 or RS-485 serial port for communication with third party equipment (AutroCom /ESPA4.4.4/MODBUS/VDR) • 1 AutroFieldBus (AFB) interface • FailSafe relay output
Ethernet Cable	CAT 5 or better. Shielded cable required in maritime installations. Max. 100m between Ethernet nodes

Product Name	Part number	Description
BS-420MG	116-KIT-BS-420MG	AutroSafe Maritime Gas Alarm Control Panel Kit

Dimensions (mm)

