Printer Unit BUP-200

Autroprime Interactive Fire Detection System
Product datasheet

Features

- Printouts of fire alarm events
- Unique single-handed easy paperload system
- High speed and high quality fixed head thermal mechanism
- Powered directly from Autroprime's internal 24VDC source
- Serial RS-232 interface
- Robust case design
- Easily mounted on a wall bracket

Application/Description

The printer requires Autroprime software version 1.1.5 and more recent versions.

The printer kit includes the following items:

- Wall bracket (mounting instructions included)
- Interface Board BSP-200 to be mounted onto the Main Board BSA-200 inside the Fire Alarm Control Panel BS-200
- One 46mm diameter paper roll
- An 85cm length combined data and power cable (connected to the printer unit)
- 6 extension bolts (12mm) for the connection of the interface board and metal cover
- This datasheet

The combined data and power cable fastened to the printer unit can be extended to maximum 3 meters if required.

Autroprime's Printer Menu

The Autroprime printer menu selection allows you to enable printing of alarm events. Whenever any alarm events occur, the system will automatically printout these events.

In addition, you can initiate a printer test instantly to verify that the communication with the printer is established. The printer's operational status is monitored once every 90 seconds, and a fault message is presented in the panel display whenever any printer fault is detected.

Technical specifications	
Dimensions (mm)	47 x 92 x 108 (H x W x L)
Weight	446g (including battery and full roll of paper)
Mounting	Wall mounted, bracket
Materials	Compliant with RoHS Directive
Operating temperature	0 - 50°C
Power	Autroprime's internal 24VDC source
Current consumption	Ide: ~45mA Printing: ~ 0,5A Self Test: ~ 0,8A Self Test Peak: 2,25A Inrush current: ~ 155mA
Paper specifications	Paper Roll Width: 57.5 ± 0.5mm. Max roll diameter: 55mm (Approx. length: 33 meters) Accepts paper rolls with or without a core.
Print width	48 mm
Dots per line	8 dots/mm (vertical and horizontal)
Data buffer	20 Kb
Print method	Fixed head thermal mechanism
Print speed	50mm/s (typical)

Part number	Description
116-BUP-200	Printer Unit Autroprime
Optional:	
116-1712-012.0001	Printer paper 57x46x13mm/25m

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This product contains static-sensitive devices. Always use an antistatic wrist strap / ground bracelet to avoid any electrostatic discharge.

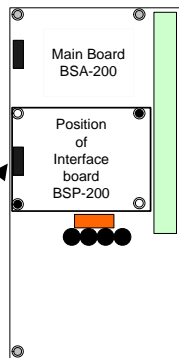The WEEE Directive

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Mounting the Interface Board

Before mounting the interface board, make sure to use an antistatic ground bracelet.
■ Perform a controlled System Shutdown (Service Menu/System Settings)
■ Turn the POWER OFF by disconnecting the internal battery cables from the terminal points, then disconnect the mains power by operating the switch at the fuse terminal box.
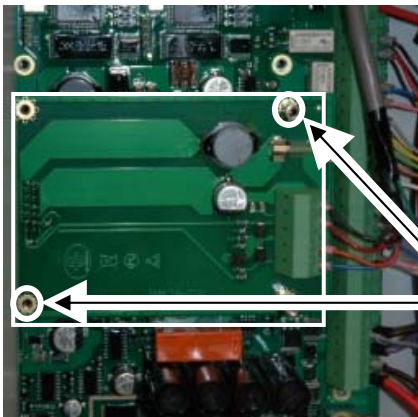
The interface board is to be connected onto the Main Board BSA-200. It is delivered with 6 extension bolts (12mm).
■ Unscrew the 6 screws and remove the metal cover from the Main Board inside the cabinet

■ Unscrew the 2x25mm extension bolts in the position of the BSP-200 board (see picture)
■ Replace these two bolts with the 12mm extension bolts, remove the two screws and fasten the remaining two extension bolts
■ Align the interface board with these 4 extension bolts and the *second connector from the top of the circuit board*, then press the interface board gently onto the connector
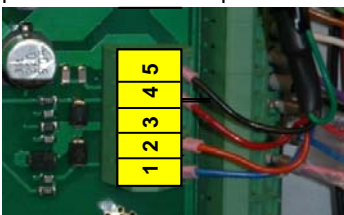■ Fasten the 2x12mm extension bolts onto the interface board diagonally (left lowermost /right uppermost screw holes)

Main Board BSA-200

Position of Interface board BSP-200

Position of extension bolts

■ Fasten the 2 screws (that was removed from the BSA-200 board) in the 2 remaining screw holes
■ Connect the printer cable's lose wires to the appropriate terminal points (as shown below)
■ Make sure to insulate the end of the green wire with a piece of insulation tape

■ Re-place the metal cover, and fasten the screws
■ To turn the POWER ON, connect the mains power, then connect the internal battery cables.

Cable Connections

Term. Points	Colour	Input / Output	Description
5	Black	Input	0V Common (RS-232 signal return and power supply common)
4	Red	Input	Positive Battery Input (+24)
2	Orange	Output	RS-232 Tx data
1	Blue	Input	RS-232 Rx data
	Green	Not in use. Insulate with insulation tape.	

LED indications

Pattern	Power Status	Buffer Mode
Constant green	OK	Normal
Fast flashing green	OK	Spool
Long green – short red	Low voltage	Normal
Short green – short red	Low voltage	Spool
Fast flashing red	Error condition	
No light	Printer is OFF	Printer is OFF

Paper / Loading Paper

Pressing the paper feed button advances paper at typically 50 mm per second. "Double-clicking" the button will give the following behaviour:
■ in idle mode, prints a demo/test message including the firmware version, encoded calibration data, and the full character set
■ in spool mode, or having been out of paper, prints any stored data and enters idle mode

The procedure for loading paper is as follows:
■ Slide the Lid Release Button forwards until the lid springs open
■ Unwind a small amount of paper from the roll and Insert the paper roll into the printer
■ Close the lid down, and the paper is loaded
■ After loading, check that the paper is straight and advances properly, and tear off any excess by pulling the paper sharply towards you across the serrated tear bar. In the event of a jam or other paper loading problem, release the lid and straighten the paper before closing again.

Enable Printing / Save Configuration / Restart

■ From the Service menu/System Settings, select Printer Setup, then enable printing of alarm events.
■ Save the configuration, then restart the system.

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