JADE BIRD
FIRE ALARM SYSTEMS

JBE-P2L1

Addressable Fire Alarm Control Panel

Key Features

- ◢ 1 to 2 loops expandable panel with 200 addresses per loop

- ◢ Large 7" color LCD with user customizable home-screen

- ◢ Fully programmable from the front panel or via any device

- ◢ USB to update panel setup and firmware-upgrade

- ◢ Cloud based user panel commissioning tool (offline)

- ◢ Hand-held programmer with device diagnostics feature

- ◢ All panel indicators based on icons (language independant)

- ◢ Up to 4 Amps available for external devices

- ◢ Metallic cabinet with front door equipped with access key

- ◢ Optional cabinets for larger batteries and events log printer

The Draco JBE-P2L1 is an Addressable Fire Alarm Control Panel designed for small to medium sites. It is ideally suited for both new and retrofit commercial, institutional, and industrial applications.

Draco JBE-P2L1 is the first generation EN addressable fire alarm system from Jade Bire Fire and is approved to the requirements of EN 54-2, and EN 54-4. It can support up to 2 addressable loops and 400 addressable devices, with 2 general faults and alarms relay outputs, 2 x 24 VDC power output for external devices supply and optional cabinets for batteries and/or events log printer.

The JBE-P2L1 has a 7" LCD display with 800 x 480 resolution, 6 auxiliary function keys, 4 control keys, keypad with 12 numeric keys, 11 LED indicators and 30 zones LED making it a highly intuitive fire alarm user interface allowing the user to fully setup the system without the need of any external tool.

An internal USB port allow the installers to download the config data into an external USB device that can later be uploaded to the Cloud config tool. The panel config tool is based on a web service hosted in the Jade Bird cloud so it can be executed from any PC, Laptop or Smart device.

Components and Accessories

Second loop card (JBE-P2L1-EXLP)

The optional second loop card (JBE-P2L1-EXLP) can be added to the main loop panel card to expand into a two (2) loop panel. The second loop has the same capabilities as the first loop in the number of devices and power limits.

Printer (JBE-PRT)

The optional printer consists of an external printer box with a thermal printer. It can be installed/attached below the cabinet of the panel. When the printer is installed, users with access level 3 to setup the printer from the Adjust menu.

External battery box for 17 Ah batteries (JBE-BAT)

The optional external battery box provides the housing and cables needed to use two (2) 17 Ah batteries. This is to use 17 Ah batteries instead of the 7 or 12 Ah batteries for longer stand by time.

TECHNICAL DATA	
System Capacity	
Number of detection loops	1 or 2
User-selectable detection loop topologies	Class A (ring) or Class B (stub)
24 V outputs to field devices	2
Maximum number of detection zones	400
Maximum number of output groups	400
Connection to Field Devices	
Maximum loop distance	2.000 m
Recommended cable type	2 x 1.5 mm2 unshielded twisted pair
Maximum number of addressable points (Free mix of detectors, MCP, IO, sounders)	200 per Class A loop (max 2 x 200)
Detection loop voltage	JBE pulsed protocol (20 to 30 Vpp)
Detection loop available current	2 x 200 mA
DC outputs to field devices	2 x 2 A @ 24 VDC
Field cable access to panel cabinet	Ø20 mm knockouts (14x)
Alarm & Fault relay outputs	
Connection type	Normally-Open voltage-free relay
Electrical contact ratings	2A @ 30 VDC
Power Supply	
Mains voltage	230 VAC (196 – 253 V)
Mains fuse	2.5 A slow acting
Power rating (mains)	2.5 A max
Max. sustained DC output current (Imax a)	4 A
Max. alarm DC output current (Imax b)	5.5 A
Batteries	
Approved battery types	Primary cabinet (6.3 mm Faston tab terminal)
	2 x Yuasa NP7-12LFR
	2 x Yuasa NP12-12FR
	With optional battery box kit (Ø5 mm ring terminal) 2 x Yuasa NP17-12IFR
Float charge compensation	-36 mV/ºC
Internal battery resistance	Max 1 Ω
Loop Device Compatibility	
EN 54-11 Manual Call Point	JBE-2100
EN 54-5 Heat detector with remote indicator output	JBE-2106
EN 54-7 Optical detector with remote indicator output	JBE-2111
EN 54-5 & EN 54-7 Optic-heat combo detector	JBE-2115
EN 54-18 Input module	JBE-2120
EN 54-18 Input / Output module	JBE-2125
EN 54-3 Sounder	JBE-2135
EN 54-3 Sounder with visual indicator (VID)	JBE-2145
EN 54-17 Isolator	JBE-2150
Detector Base (2 contacts)	JBE-2160
Detector/Sounder Base (5 contacts)	JBE-2165
Panel Expansion Accessories	
Draco external battery box	JBE-BAT
Draco 2nd Loop expansion card	JBE-P2L1-EXLP
Draco printer box assembly	JBE-PRT
Environment	
Operating temperature	-5 to +40 °C
Storage temperature	-20 to +55 °C
Environment humidity (non-condensing)	< 95 % (no condensation nor icing)
Ingress Protection category	IP30
Panel Dimensions	
Dimensions (WxHxD)	440 mm x 370 mm x 126 mm
Weight (without batteries)	4 kg
Weight (including 12 Ah batteries)	12 kg
Printer Cabinet Dimensions	
Dimensions (WxHxD)	440 mm x 120 mm x 126 mm
Weight	1 kg
Battery Cabinet Dimensions	
Dimensions (WxHxD)	440 mm x 250 mm x 126 mm
Weight (including 17 Ah batteries)	14 kg
Specification and Certification	
Standards	EN 54-2 EN 54-4
Declaration of Performance	DoP-0370-CPR-3813-1