

## Overview

JBE-2200 is an addressable conventional zone module designed to operate on a loop of intelligent fire detection and alarm devices with the JBE loop protocol. The module is loop-powered or loop-powered plus 24 V DC power bus. It provides one conventional zone to the fire detection system controlled by the fire panel. This conventional zone is electrically isolated from the loop and can be used for monitoring the state of one conventional zone. Zone modules are often used to monitor third-party equipment. When the zone is activated, the LED turns on and the module reports the event to the fire panel.

The JBE-2200 will notify the control panel if there is a disconnection in the pair of cables which lead to the monitored 24 V DC power bus equipment.

## Technical data

Category	EN 54-18 conventional zone module
Working voltage	DC 19 - 30 V (JBE protocol pulse amplitude) 20 - 30 V (24 V DC power bus)
Connection	2-wire JBE communication bus, no polarity 2-wire 24 V DC power bus, no polarity
Wiring	Twisted pair, max. wire section 2.5 mm <sup>2</sup>
Current powered from the loop	≤9 mA @24 V (Current from the loop - Quiescent) ≤46mA @24 V (Current from the loop - Alarm)
Current powered from 24 V DC	≤2 mA @24 V (Current from the loop) ≤8 mA @24 V (Current from 24 V DC - Quiescent) ≤42 mA @24 V (Current from 24 V DC - Alarm)
EOL zone	4.7 kΩ
EOL external PSU	4.7 kΩ
Working temp.	-10°C ~ +55°C
Storage temp.	-20°C ~ +60°C
Environment	≤ 95% RH (40±2°C) (no condensation nor icing)

Addressing method	Soft addressing with tool JBE-AT1, non-volatile
Address range	1-200
LED Indications Red (ALARM)	<u>Standby</u> : Flashes when polled <u>Alarm</u> : Steady on when in alarm
LED Indications Orange (FAULT)	<u>Open</u> : Steady on <u>Low Voltage</u> : 1 pulse per second <u>Short Circuit</u> : 2 pulses per second <u>High Consumption</u> : Continuous pulse train <u>Reset</u> : Pulse train during reset process (3 seconds)
Dimensions	85×85×41 mm (LxWxH)
Weight	0.1 kg (including base)
IP rating	IP40
Compatible base	JBE-2175
Remote indicator	LED with or without series resistor (Rs <4 kOhm)

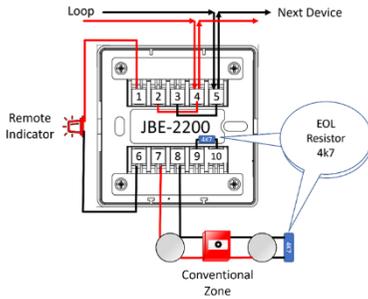
## Installation

Always observe local fire and electric installation regulations.

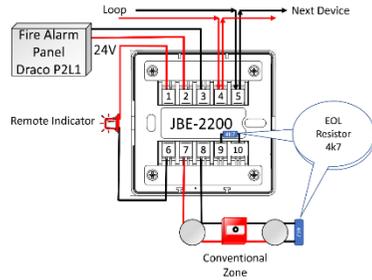
1. Secure the base to the wall (surface or flush mounted).
2. Connect the wiring to the base as per the following diagram:

Terminals	Connection
4 & 5	Signal loop L1, L2 (no polarity)
2 & 3	24-V power line, 2: Positive, 3: Negative.
1 & 6	Remote indicator (optional)
7 & 8	Conventional zone
9 & 10	24 V DC supervised input

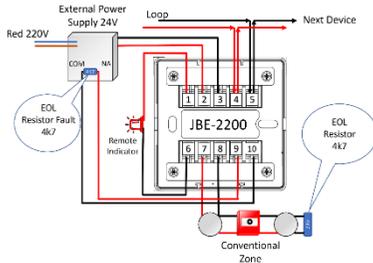
### Loop Powered



### Loop and 24V from Fire Panel



### Loop and 24V DC from external Power Supply

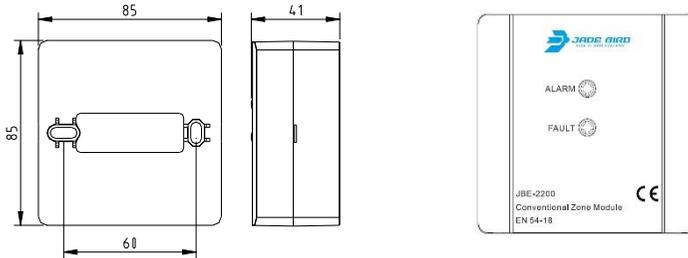


3. Program an unused loop address (1 to 200) to the module using the JBE-AT1 tool.
4. Insert the module into its base and push firmly.
5. Register the module into the fire panel's configuration.
6. Test each module and wiring integrity after installation and periodically according to local fire regulation.

### Maintenance

Alarm test should be conducted regularly, recommending every 6 months.

## Mechanical dimensions



all dimensions in mm

## Regulatory information


<b>0370</b>
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<b>22</b> DoP-0370-CPR-6272-1
<b>EN 54-18:2005+AC:2007</b> JBE-2200 <i>Conventional Zone Module, intended for use in fire detection and fire alarm systems installed in and around buildings.</i> Technical file: see TF-JBE-2200-10 provided by the manufacturer.

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