

# Intelligent Blasting Control Unit

## Model IBC-1



### Features

- The IBC-1 is designed for surface controlled, centralized firing of the Intelligent Centralized Blasting System (IBS) which includes the Intelligent Section Control Unit Model ISC-1 and Intelligent Blasting Boosters Models IB651 and Magnastart® IB212.
- The IBC-1 incorporates a cable fault detection system, which provides an audible and visual warning of short circuit faults or earth leakage faults.
- The IBC-1 continuously monitors up to 30 ISC-1 units gathering information regarding the system and displays it in real-time on the IBS graphical user interface (GUI).
- In FIRE mode, the IBC-1 provides a 60 second firing output when the FIRE button is pressed.
- Capable of operating over a wide voltage range (160-250V<sub>AC</sub>).
- The IBC-1 is supplied in a sealed, lockable enclosure with a polycarbonate window to allow full view of the IBC-1.

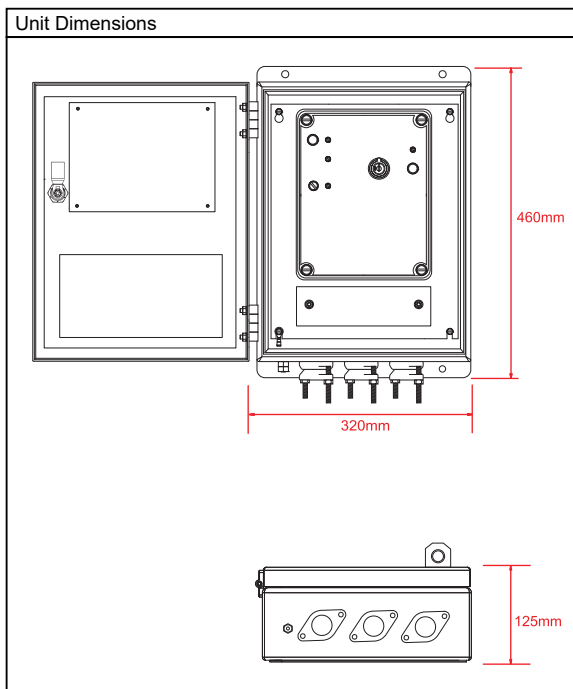
### Operation

- The IBC-1 will not fire if a cable fault is detected prior to the key switch being switched to the READY position.
- If mains is interrupted at any time, the buzzer will sound until reset.
- All important functions are indicated by the status light.
- The FIRING key is only removable with the key switch in the OFF position, ensuring that when the key is removed, unauthorized firing cannot take place.
- A door alarm switch operates an external alarm when the IBC-1 door is opened. (Optional).

### Notice and Maintenance

- All service work must be performed by authorised AEC Electronics personnel only.

### Specifications



IA Certificate Number	E-XPS/16087.
Function	Controlled firing of up to 100 Model IB651 or Magnastart® IB212 Intelligent Blasting Boosters.
IBS GUI	Intelligent Centralized Blasting System graphical user interface displaying the status and data of the system in real time.
Firing Light	Lights up for 60 seconds during the blasting period.
Alarm Light	Latches to indicate that either power was lost and restored to the IBC-1 or a cable fault has occurred.
Cable Fault Light	Indicates that the resistance between cable leads has dropped below 2kΩ (IBC-1 must be in OFF mode).
Mains Supply	160-250V <sub>AC</sub> 50Hz.
Construction	Encapsulated circuitry in an IP65, sealed, plastic enclosure which is housed in a sealed, lockable, steel cabinet with a polycarbonate window allowing full view of the IBC-1 status lights.
Unit Dimensions	Plastic enclosure: 260mm x 200mm x 100mm. Steel enclosure: 460mm x 320mm x 150mm.
Unit Mass	12.5kg.
Temperature Range	-5°C to 45°C.

### Warning and Disclaimer

The information and recommendations in this document are provided for reference purposes only and should not be construed as advice to cover every application of the product or variation of conditions under which the product may be used.