

# Intelligent Plant Shutdown Control System

## MASTER CONTROL UNIT

REF: MCU - 1 - 08

The Master Control Unit forms the heart of the intelligent plant shutdown control system and provides a unified and stand alone system with expansion capabilities.

It contains a polarised relay on a PCB to receive a 24V signal from BS5839 fire alarm equipment and can be connected to a typical Fire Alarm Panel sounder circuit output using EOL resistors. The unit is capable of switching ancillary 240V loads of up to 5A resistive load.

The unit overcomes drawbacks with existing simple relay arrangements, as the output from it will remain isolated even when the alarm signal is only momentarily applied. This means that power is not restored prematurely to equipment such as magnetic door contacts, lift equipment and ventilation systems, which if re energised could allow the passage of smoke or fire, as can occur with standard relays on silencing of alarms.

The unit includes a lockout key switch to enable testing of the fire alarm system without shutting down any of the control systems connected to the units 240V output.

The control unit requires a manual reset after an alarm input or power failure, meaning it is fail safe.

The back box can be fitted at the time of installation with other first fix items and all terminations can therefore be connected for testing, the control unit can be simply fitted in later. The control unit is connected to the back box using simple plug in connections.

This unit has expansion capability for the following equipment:

REMOTE RESET UNIT Ref: RRU - 1 - 08

SYSTEM ACTIVATION UNIT Ref: SAU - 1 - 08



## TECHNICAL SPECIFICATIONS

Mains Supply;	240v - AC - 50 Hz - 5A
Unit power consumption	2.0W @ 240V
Operating temperature	-20°C to +60 °C
Trigger I / P Voltage;	24V DC
I/P Relay Current	18mA @ 24V
Output Voltage	240V
Max Output Current	5A (Resistive) 3A (Inductive)
Enclosure Colour	Red
Material	PVC
Dim: Width x Height x Depth	200 x 120 x 75 mm
Enclosure entry details	None - Plain - Self Drill
Approx Weight (excluding packaging)	750 G

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Specifications are subject to change without notice.  
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