

DSI GROUP CONTROL PANEL (GCP)

Smoke and Fire Curtain Electronics

Function

The Group Control Panel (GCP) provides power to the Motor Control Circuit (MCC) units when the fire alarm status is normal (closed). If the fire alarm is activated, the MCC units are powered down, allowing the curtains to deploy via gravity to their operational fire position. When the alarm is reinstated, the MCC's are powered up retracting the curtains. If there is a main power failure, the back-up batteries provide power to the MCC's for up to 3 hours (subject to load) and prevent deployment until discharged, unless overridden by an alarm signal. Delayed descent and delayed reset functions are fitted as standard.

Integral Battery Back up

Up to 3-hour power supplied by two 7Ah rechargeable sealed lead acid cells.

Testing

Key switch control on panel.

Status Indication

LED series on panel: Green=main power healthy, Red=fire status, Bottom Green=battery failure.

Compatibility

The GCP runs up to 5 MCC units (5 motors) from the 24v ring output. Two stage descent (with brake motors) is fitted as standard and is adjustable to suit project requirements.

Options

Optional modules for delayed descent, split drop, and BMS relays are available as an upgrade.



Specifications

Type	Description
Dimensions	15-1/2" H x 13-1/2" W x 4" D
Finish	White powder coated mild steel
Power supply	120-130v 60Hz AC
Fire signal	Open on fire, normally closed volt free contacts



GUARANTEED QUALITY

Door Systems guarantee high quality products, tested to both UL and BS standards.



The **SMOKE & FIRE CONTAINMENT** People

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OPERATION IN CASE OF FIRE OR LOSS OF POWER

1. Electrician to supply and run 3- solid 14 gauge color coated wires (14-3) for low voltage loop.
2. Electrician to supply and mount 2- double gang “J” boxes at each smoke curtain and at GCP.
3. “J” boxes must be clearly labeled “in” for incoming from GCP and “out” fore wire going out to the next smoke curtain or back to GCP.
4. See MCC electrical requirements for further details on the location of “J” boxes.
5. The maximum allowable length of the entire 24 volt loop from GCP to all mcc’s and back is 250 feet.
6. Allow at least 6 feet of extra wire inside each “J” box in order for door systems to make final connections. There shall be no splices in wire loop.
7. “In” and “out” wire must be run in separated conduit.
8. All “J” boxes must be clearly labeled.

