

- Protec Algo-Tec™ 6000 Protocol
- Integral Short Circuit Isolator Approved to EN54 Part 17
- Supports 230 Vac, 110 Vac and 24 Vdc Actuators
- Supports 2 Position (Open/Closed) and 3 Position (Modulated) Actuators
- Control, Monitoring and Indication of Damper position and Status
- External Connections to Monitor and Override Damper
- Can be Configured for Legacy Operation (6000/DIU)



The Protec 6000 Damper Control Module has been designed and manufactured in the United Kingdom and complies fully with current standards dictating fire alarm system design practice (EN54 Part 17 and 18).

The Damper Control Module is an innovative fire alarm interface, compatible with the Protec MX1 loop communication system, which allows control of a building's heating, ventilation and air conditioning system smoke dampers directly from the buildings fire alarm system.

Configuration of the device is carried out using Near Field Communication programming and allows the device maximum flexibility to interface to a wide range of damper actuator types.

Both 2-position (power open/fail-safe closed, or power closed/fail-safe open) and 3-position modulating (power open, modulating, fail safe closed) actuators are supported by the control module with position monitoring and indication of the connected damper. All monitoring information is transmitted and displayed

at the fire alarm system display control panels and where fitted, the FA graphics and Fireman's Override Control Panels.

Monitored inputs from each 6000/DCM are programmable and can be used by the fire alarm cause & effect matrix to operate other output requirements.

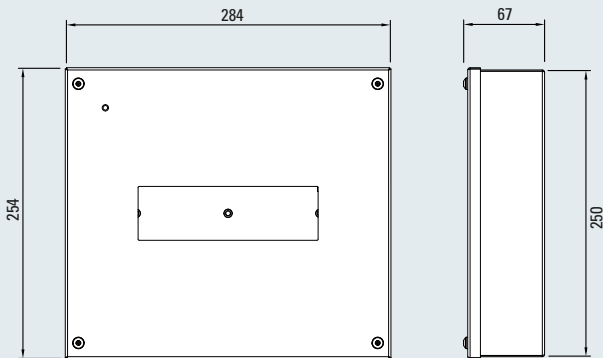
Modulated damper support allows vane adjustment and monitoring locally at the Damper Control Module and remotely from the fire alarm control equipment. The vane position is adjusted and set during air-balance commissioning, this set-position is stored by the damper control module and becomes the dampers normal operating position unless actively overridden to open or close (fail safe).

Additional input and outputs are included at the device to allow for external building management interfaces to be connected. These can override and monitor the damper position, with loop control having priority.

Continued overleaf...

Technical Specification

Dimensions (mm)



Weight 1.9kg

Order Codes

N 62-835-00	6000/DCM c/w Knock outs
N 62-835-01	6000/DCM No Knock outs

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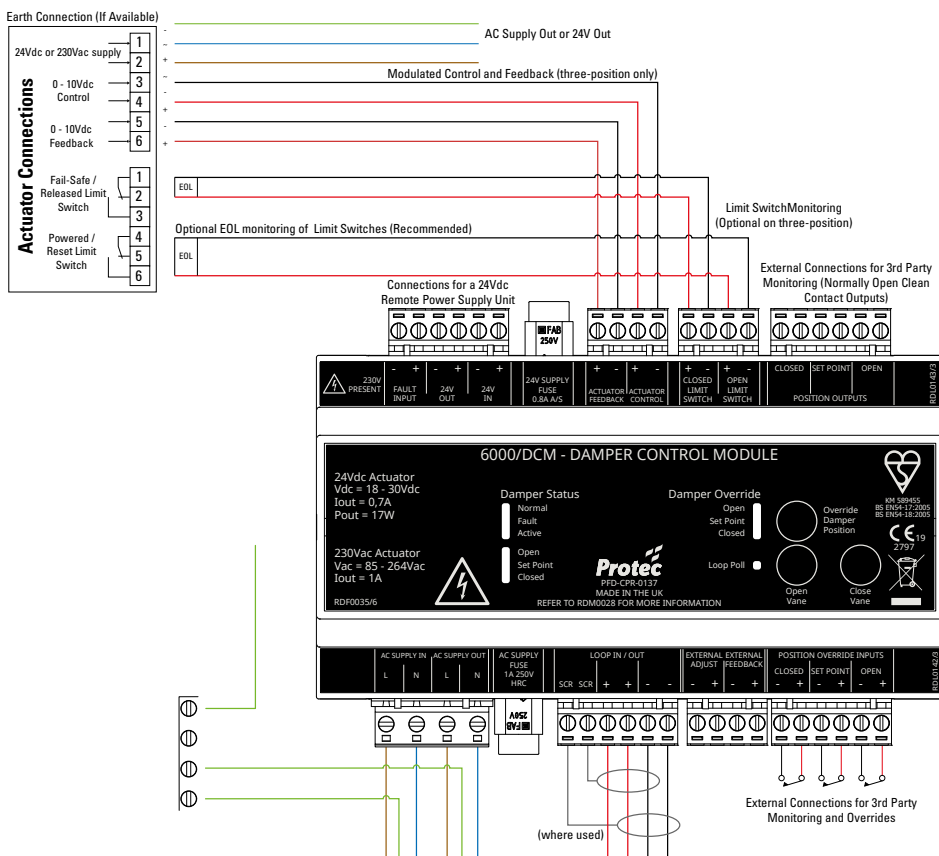
Environment	-10°C to 55°C (95% R.H. non condensing)
IP Rating	IP30
Loop Powered	Yes (uses 1 address)
Loop Load	0.7mA
Loop Voltage	16 - 28V
External Power Supply	21-28Vdc or 85-264Vac
230 Vac Actuator Supply	85 Vac – 264 Vac, Rated at 1A
24 Vac Actuator Supply	24 Vdc – 29 Vdc, Rated at 0.7A
Loop Short Circuit Isolator	Yes, approved to EN54 Part 17
Inputs	2 Monitored 'Open' and 'Closed' limit switches, actuator modulated feedback, 3 N/O override inputs, external modulated adjust
Outputs	Actuator modulated control, 3 N/O position outputs, external modulated feedback
Fault Delay	Adjustable between 60sec and 240sec in 10sec increments
Device Protocol	Algo-Tec™ 6000
Relevant Standard	EN54 Part 17 & 18, CE Marked

The 6000 Damper Control Module can be supplied from a 230 Vac or 24 Vdc input supply. A 230 Vac supply will allow the module to operate a 230 Vac actuator or a 24 V dc actuator using the internal regulator. A 24 Vdc input supply will allow operation of a 24 Vdc actuator with a power supply unit fault input supplied for external supply monitoring.

Loss of loop control at the Damper Control Module, would send the actuator to a selectable default position.

The Damper Control Module incorporates a fault delay feature that allows dampers to move between their instructed open and closed positions, within a selectable 60 seconds to 240 seconds timeout period.

Connection Diagram



Company Policy is one of continuous improvement, we reserve the right to change specification without prior notice

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