

OS3 Control Panel



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OS3 is a modular smoke control and environmental ventilation system. It consists of a centralised coordination module (the coordinator) and between 1 and 16 zones. Larger systems can be constructed by linking together multiple coordinators.

The coordinator controls power and data to the networked system, fully monitoring primary (mains) and secondary (battery¹) power supplies. The OS3 system intelligently monitors the system's current requirements and determines how and when the MCPs can call on this power to activate AOVs.

An OS3 control system will integrate into Building Management Systems (BMS) and offers a cost-effective solution for stairwell ventilation. Expansion packs are available to facilitate the scalable enhancement of the panel features which includes LED indicators to display its operational status.

¹ Batteries supplied separately

Conforms to the requirements of EN 12101-10



Applications

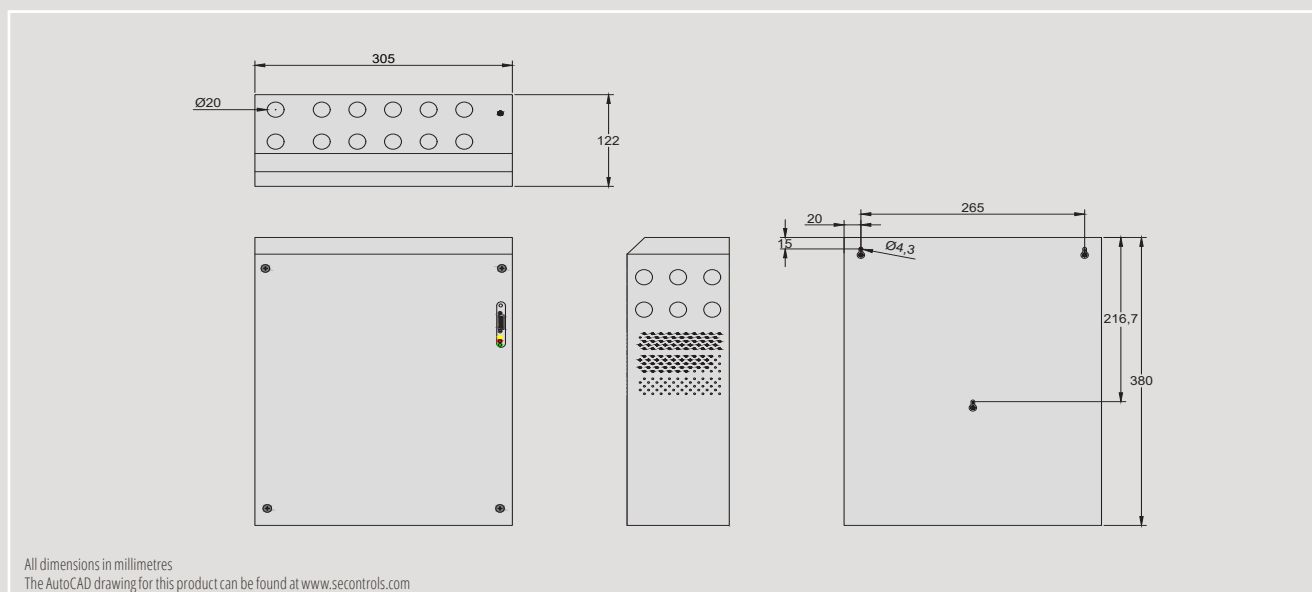


Smoke Ventilation



Environmental Ventilation

Technical Drawing



Smoke Detector Specification

Part numbers	Smoke Detector Head: ADA55000318 Smoke Detector Base: ADA45681200
	Fastest takes just 4 seconds to test and confirm detectors are functioning correctly
	Responds well to slow-burning, smouldering fires
	Good performance in both black and white smoke

Manual Control Point (MCP) Specifications

Part Number (OS3 Standard MCP)	FCS00300041 (Module Assembly) FCS00300040 (Adaptor Plate) FCS00300043 (Module & Adaptor Plate Assembly)
Part Number (OS3 Tamperproof MCP)	FCS00300042 (Module Assembly) FCS00300040 (Adaptor Plate) FCS00300044 (Module & Adaptor Plate Assembly)
Dimensions	87 x 87 x 57 mm (H x W x D Approx.)
Mass Approx	0.1KG
Supply	20V-29 V dc @ 4A
Output	20V-29 V @ 6A Max
IP Rating	IP20
Humidity	10 to 90% Non-Condensing
Temperatures	-20°C to +75°C (storage) -5°C to +40°C (operating)

Battery Product Code

12 Volt 12 AH Back Up Battery¹
ABB00660016

¹ x2 Batteries Required - Order Separately

Reset/Activation Key Product Codes

MCP Dumb Reset Key
FCS00200024
Activation Key - Open Only
FCS00200033

Technical Data

Part Number	FCS13350000 - OS3 Control System (0 Zone) 380 X305 X122 RAL 7035 GREY FCS13350002 - OS3 Control System (2 Zone) 380 X305 X122 RAL 7035 GREY FCS13350004 - OS3 Control System (4 Zone) 380 X305 X122 RAL 7035 GREY
Dimensions	380 x 305 x 122mm (H x W x D)
Mass Approx	4.1 kg
Supply	230 V ac 50/60 Hz, (±10%) from a 5A unswitched spur
Power Consumption	Max. 500VA
Typical Output Voltage (Mains Power)	Typical Output Voltage (Mains power, max load 7.0A) Nominal 24.0 V NV Link 2/4 Max 5A for 180 seconds Peak current can exceed 5 A for a short duration
Typical Output Voltage (No Mains)	Nominal 24.0 V Max. 28.8 V Min. 18.5 V
Maximum Current¹ (Mains and Batteries)	Max 7.0 A for 180 seconds Peak current can exceed 7.0 A for a short duration
Auxilliary Outputs¹	VC, VD, VE, Nominal 24.0 V, 100 mA / 40 mA
Battery Backup	2 x 12 V dc 12.0 Ah sealed lead-acid sold separately)
Expected Battery Life	3 Years @ 25°C
Real Time Clock Battery Life	10 Years
Cable Entries	For ease of installation, cable entries are via up to 6 off 20mm cable glands mounted either side, plus up to 12 off 20mm top mounted cable glands and/or one rear entry slot for concealed connection
IP Rating	IP30
Overvoltage Category	2
Pollution Degree	2
Humidity Range	10% to 90% Non-condensing
Storage	-20°C to +50°C
Operating Temperature	-5°C to +40 °C
Battery Standby Time	72 Hours

¹ On mains failure, average auxiliary current must be less than 20 mA to achieve 72 hours BBU.



To ensure optimal performance and safety, please be advised that the **maximum allowable cable length for the panel is 30 metres** for auxiliary connections (Rain Sensor, Day-to-Day Switch).