

OSLoop Control System



OSLoop

OSLoop is a modular smoke control system. It consists of a centralised coordination module (the coordinator) and between 1 and 64 remotely mounted manual control points (MCPs). 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 (battery) power supplies. The OSLoop system intelligently monitors current requirements of the system and determines how and when the MCPs can call on this power to activate AOVs.

Each MCP contains actuator switching circuitry which also monitors the actuator cabling and circuitry for faults. If a fault is detected, then the MCP raises a local alarm and also informs the coordinator so the remote alarms can be triggered. The MCP also provides support for one or more smoke detectors. Again this circuitry monitors the detectors and cabling checking for faults. In addition the MCP can be configured as master/slave device to other MCPs in the same system.

Features

- 40% less cable costs than a conventional system
- 50% less devices compared to conventional systems
- Reduced system installation time
- prEN12101-9 and fully EN12101-10 compliant
- EMC tested to EN61000-6-2 and EN61000-6-3
- LVD tested to EN60335-1 as amended by EN60335-2-103.

Accreditations

Certified & tested in accordance with EN12101-10.

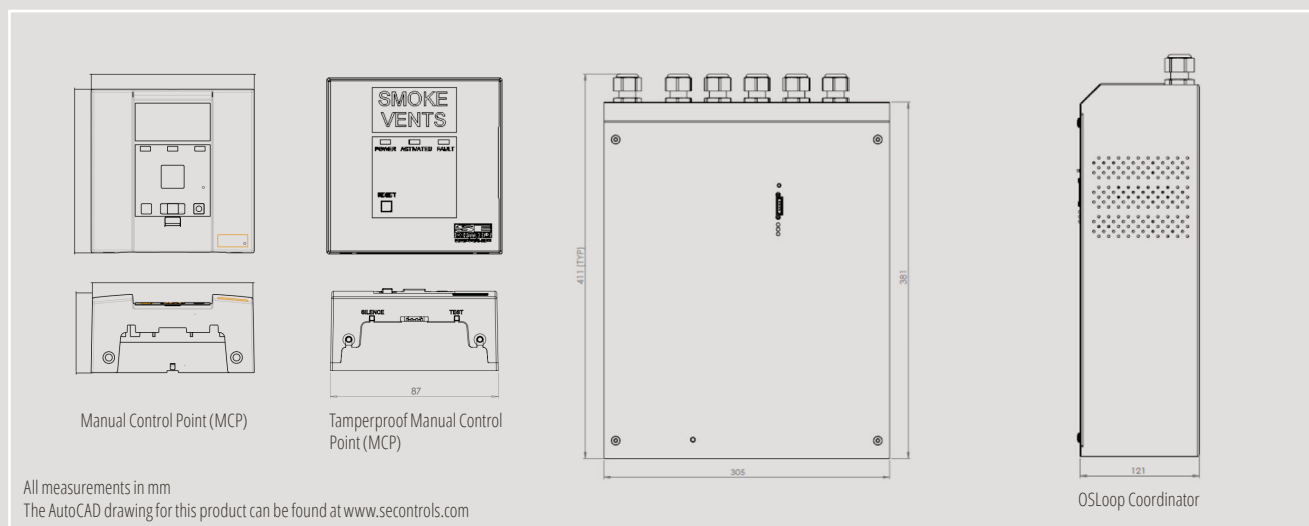


Applications



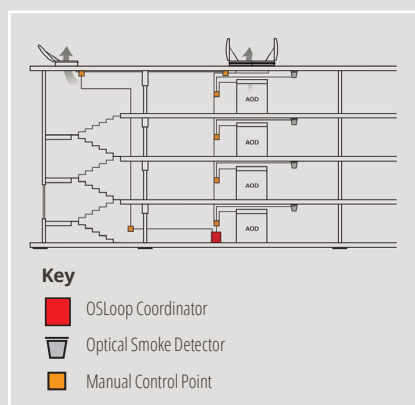
Smoke Ventilation

Technical Drawing



Technical Data

OSLoop Control System



Coordinator Specification

Part number	FCS00300010
Dimensions	310 x 380 x 130mm (W x H x D Approx.)
Mass Approx	4.1kg
Supply	230V AC, 50/60Hz @ 4A
Output VA	25.5VDC @7A continuous, 9A for 60 seconds
Output VB	27.6VDC @7A continuous, 10A for 60 seconds
VB Batteries	2x12VDC 12.0Ah Sealed Lead-Acid Batteries. (Operation at elevated temperatures may reduce battery life)
IP Rating	IP20
Humidity	10 to 90% Non-Condensing
Temperatures	20 to +75°C (storage) 0 to +40°C (operating)

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) Specification

Standard MCP Part numbers	FCS00300027 (Complete unit) FCS00300017 (Module) FCS00300018 (Back-plate) FYS15040061 (Surface mounted pattress box)
Tamperproof MCP Part Numbers	FCS00300028 (Complete unit) FCS00300020 (Module) FCS00300018 (Back-plate) FYS15040061 (Surface mounted pattress box)
Dimensions	87 x 87 x 50mm (H x W x D Approx.)
Mass Approx	0.1kg
Supply	20V-29V DC @ 4A
Output	20V-29V @6A Max
IP Rating	IP20
Humidity	10 to 90% Non-Condensing
Temperatures	20 to +75°C (storage) 0 to +50°C (operating)