

OSLoop Control System



OSLoop

OSLoop is a modular smoke control system. It consists of a centralised coordination module (the coordinator) and between 1 and 16 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 up to three smoke detectors. Again this circuitry monitors the detectors and cabling checking for faults. In addition, the MCP may be configured to work independently or grouped in the same system.

Features

- 40% less cable costs than a conventional system
- 50% less devices compared to conventional systems
- Reduced system installation time
- EN12101 Pt.10 2005 + C1: 2007 compliant
- EMC tested to EN61000-6-2 and EN61000-6-3
- LVD tested to EN60335-1 as amended by EN60335-2-103.

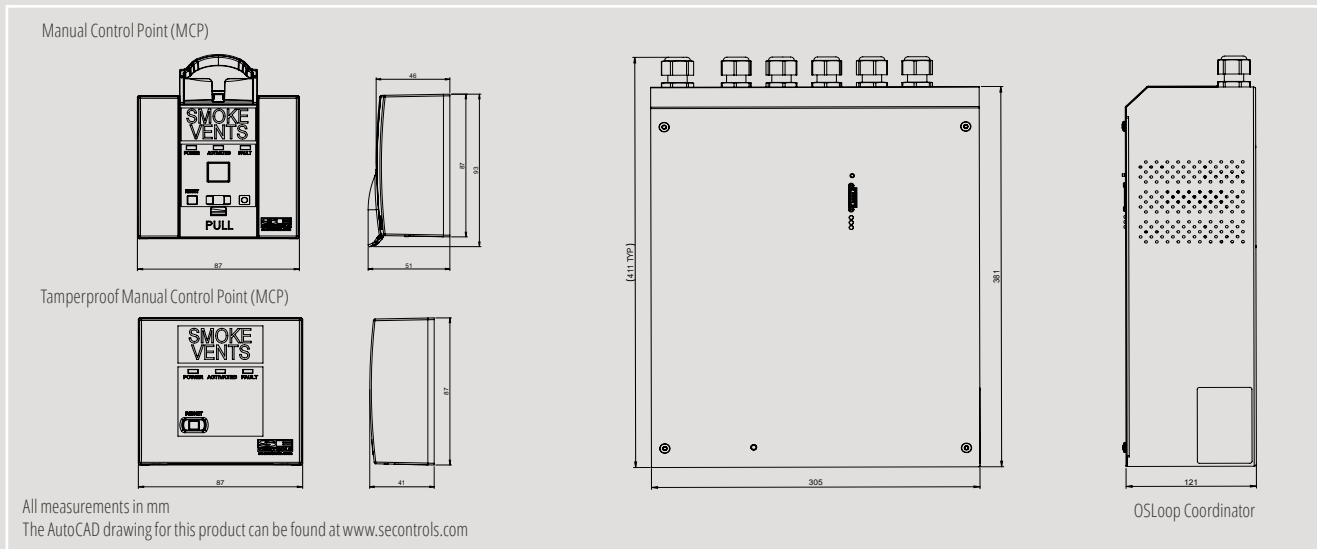
* Batteries sold separately



Applications

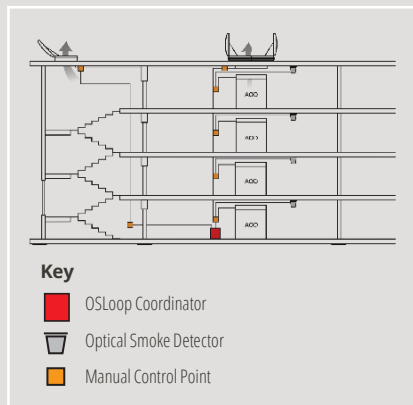


Technical Drawing



Technical Data

OSLoop Control System



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

Standard MCP Part numbers	FCS00300017 (Module) FCS00300018 (Back-plate) FYS15040061 (Surface mounted pattress box)
Tamperproof MCP Part Numbers	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)

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. (±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 Max. 28.4V at 253V ac Min. 19.2V at 207V ac
Typical Output Voltage (no main)	Nominal 24.0V Max. 28.8V Min. 18.5V
*Maximum Current (mains and batteries)	Max 7.0A for 180 seconds Peak current can exceed 7.0A for a short duration
*Auxiliary Outputs	VC, VD, VE, Nominal 24.0V, 100mA / 40mA
Battery Backup	2 x 12 V dc 12.0Ah sealed lead-acid (Sold separately)
Expected Battery Life	3+ Years at 25° C
Real Time Clock Battery Life	10 Years
Cable Entries	Cable entries are via up to 6 off 20mm end 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 Temp	-5°C to 40°C
*Battery Standby Time	72 Hours

*On mains failure, average auxiliary current must be less than 20mA to achieve 72Hours BBU

Battery Product Code Reset/Activation Key Product Codes

12 Volt 12 AH Back Up Battery*	MCP Dumb Reset Key	Activation Key - Open Only
ABB00660016	FCS00200024	FCS00200033

*2 Batteries Required