

# NITTAN

## EV-ASD

### Aspirating Smoke Detection



The EV-ASD1/2 is a professional air-sampling unit, designed to compliment conventional and analogue addressable system technology, by combining standard field-serviceable smoke detectors with a stand-alone air-sampling solution. Ideal for the protection of difficult to access, environmentally demanding, aesthetic or architecturally restricted areas, the EV-ASD is rugged, easy to install, weatherproof, and requires no special tools or software to configure.

The unit is fitted with pre-wired detector bases and has an internal EV-Mini I/P module for direct connection to the analogue addressable loop, providing alarm and fault status.

Air is drawn from the protected area through one or two perforated 25mm pipes. A powerful fan together with sophisticated air-flow monitoring and control circuitry ensures that transport delays are minimised and air-flow is kept within working limits. System status and flow control is continuously displayed (per channel), with on-board fault relays allowing remote fault monitoring. Power management ensures that operating current is kept to a minimum, allowing superior performance and optimisation of external power supply and standby battery resources.

- General area protection (<100m<sup>2</sup> per pipe/channel)
- Inaccessible areas
- Shafts and service ducts
- Locked or security controlled areas
- Harsh environments (wet and/or dusty)
- Ceiling and floor voids
- Remote sampling of ventilation ductwork
- Hose-down areas e.g. food preparation, pharmaceutical, cleaning  
Vandal-proof applications
- Economical, single or dual area aspirated 'fire' detection
- Uses conventional or analogue addressable detectors (not supplied)
- Brand compatible detection allows true integration and control
- Detection element can be serviced or replaced
- 1 or 2 sampling pipes – each up to 50m in length
- Easy to install, commission and maintain
- Low operating current
- Rugged IP65 enclosure

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## Mechanical

Sampling Pipe Inlets	1 or 2 (EV-ASD1 & EV-ASD2 respectively)
Detectors	1 or 2 conventional or analogue addressable smoke (not supplied)
Sampling Pipe Length	50m (max) per pipe. For VdS approved installations, consult manual
Sampling Pipe Diameter	1 or 2 x 25mm or 3/4" (27mm) nominal bore
Exhaust Air Pipe Outlet	1 (25mm or 3/4")

## Electrical

Supply Voltage	Nominal 24Vdc (18 to 30Vdc)
Operating Current	300mA max (fan speed dependant)
Fault Monitoring	Power failure (common), Flow fault per channel
Relay Outputs	1 or 2 changeover relays
Cable Terminals	Removable 2.0mm maximum
Display	5 common status plus 10 segment LED bargraph per channel
Controls	External weatherproof - Code protected
Flow Monitoring	Thermal, with adjustable High/Low and sensitivity limits

## Environmental

Operating Temperature	-10 to +60°C
Operating Humidity	10 to 95% (non condensing)
IP Rating	IP65 with exhaust pipe fitted and cable entries sealed

## General

Filtration (standard internal)	Replaceable dust particle. Harsh environment filter also available
Filtration (external)	Optional, external harsh environment filter
Housing Material	ABS, with tamper-proof locking mechanism
Mounting	Upright, horizontal or Inverted
Weight	2.3kg
Dimension (W x H x D)	259 x 184 x 166mm
Equipment Approvals	EN54-20, CE, VdS, CPD

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