

SDD-3000 Weatherproof Duct Smoke Detectors

SDD-3000 are weatherproof duct smoke detectors. The SDD ionisation and photovoltaic duct detectors are ideal for installations where the air handling units have been mounted outside e.g. in the roof space. They are also ideal for areas with harsh weather conditions such as marine applications.

The weathertight IP56 (NEMA 4X) rated corrosion resistant enclosure coupled with extended temperature listings allow installation in the widest possible range of indoor/outdoor environments. The SDD-3000 can be installed in both horizontal or vertical configurations to match installation preferences.

The SDD smoke detectors are used as a part of building management systems or as a part of fire alarm systems.

The units can be powered from 24V, 110V or 230V. The smoke detector head can be easily replaced and the cover opened without any special tools.



Model Types	Model	Description
	SDD-3000-N	Weatherproof IP56 Ionisation Duct Smoke Detector
	SDD-3000-P	Weatherproof IP56 Photovoltaic Duct Smoke Detector
Technical Data	Power supply	24VAC/DC, 115VAC, 230VAC
	Power Consumption (Standby)	230VAC: 17mA 115VAC: 31mA 24VAC: 122.6mA 24VDC: 45mA
	Power Consumption (Alarm)	230VAC: 29mA 115VAC: 50mA 24VAC: 251mA 24VDC: 100mA
	Relay Contact Rating (Alarm Contacts)	2 x "C" Rated Relays 10A @ 125VAC 1 x "A" Rated Relays 1A @ 30VDC
	Relay Contact Rating (Troubles Contacts)	1 x "C" Rated Relays 10A @ 125VAC 1 x "B" Rated Relays 7A @ 30VDC
	Air Velocity	0.5...20.0 m/s
	Humidity	10..93 %rH (non-condensing / non-freezing)
	Wiring Terminals	Accepts cable 0.5 to 1.6mm (14AWG to 24AWG)
	Radioactive Element:	For RT3000-N (Ionisation) Americium 241; 0.9 Micro-Curie
	Approvals	UL Listed (UL268A, UROX) File #S2829 CSFM Listed (3240-1--4:105) (pending) MEA Accepted (73-92-E: VOL. 27) (pending)
	Operating temperature	SDD-3000-N: -20°C...+70°C SDD-3000-P: -20°C...+60°C
	Enclosure	Grey plastics, white plastic cover (Makrolon 94V-0)
	Protection Class	IP56 Weatherproof (NEMA 4X)
	Dimensions	343W x 140H x 58D mm

Weight 1.6kg

Features

- 180° visibility for all visual indicators with cover in place
- Operating voltages: 230VAC, 115VAC, 24VAC, 24VDC
- Patented cover tether retains the one-piece cover at unit
- Flashing LED on detector head indicates normal operation, can be viewed with cover on
- Ionization and Photoelectric versions available
- Interconnect up to 30 units for common functions
- Works with the complete range of duct smoke detector remote accessories
- Compatible with building automation and fire alarm systems

Installation - Mechanical

- Patented cover latch offers the industry's only no-tools single point cover assembly
- Patented cover tether keeps cover at unit for convenience
- Patented no-tools front or rear loading and removing sampling/exhaust tubes
- All gaskets are permanently attached and pre-installed

Installation - Electrical

- Patented no-tools terminal blocks for easier wiring with built-in test meter probe access
- Intuitively labeled terminal positions
- Dedicated and segregated terminal blocks for power input, relay control, remote accessories and detector interconnection
- No confusing "special programming" required
- Permanently attached wiring diagram on inside front cover
- Two sets of 10A form "C" alarm contacts
- One set of 10A form "C" trouble contacts
- One set of 1A form "A" alarm contacts and one set of 7A form "B" trouble contacts for fire alarm interface

Testing

- Patented Maintenance Mode offers 3-minute interval for test and maintenance functions with no extra trouble reports to the system (auto shut-off upon cover latch engagement)
- Patented Test Port allows for aerosol smoke testing without cover removal
- Magnet test capability (magnet included)

Service

- Standard interchangeable "twist-in" photoelectric or ionization heads for easy cleaning and replacement
- Advanced detector head design yields internal dust filtering
- Front no-tools sampling tube removal and replacement provides for simple inspection of debris accumulation

Performance

- IP56 (NEMA 4X) watertight enclosure for non-hazardous indoor and outdoor applications, to include corrosive environments
- Listed for air velocities between 0.5-20 m/s
- Ion and Photo models listed for applications ranging from -20°C to 70°C

Features

