



Securiton ASD 2000 Series Aspirated Smoke Detectors

SEC-ASD-2001
SEC-ASD-2002
SEC-ASD-2004



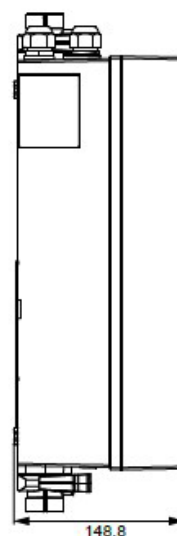
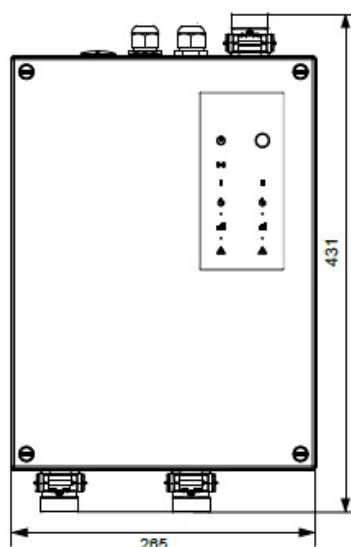
Description

The ASD-2000 is an aspirating smoke detector with highly sensitive smoke sensors; it samples and checks ambient air via a sampling pipe tube network. Airflow monitoring ensures that the sampled air flows to the smoke sensors in the correct amount and at the correct speed.

If the concentration of smoke particles exceeds an adjustable threshold value, the ASD triggers an alarm. In addition, a second alarm and 3 pre-signals can be configured. The ASD forwards the signals via relays to other fire alarm control panels.

Standards-compliant planning and project management is carried out with the PC application PipeFlow. The parameters calculated in this way are transferred to the ASD during commissioning using the MobileConfig mobile application. MobileConfig offers other functions for control and maintenance of the ASD as well as for read-ing out current events and live values.

General Configuration	Channels	Airflow Sensors	Smoke Senors
• SEC-ASD-2001	1	1	1
• SEC-ASD-2002	2	2	2
• SEC-ASD-2004	4	4	2



System Limits

SEC-ASD-2001	Class A	Class B	Class C
Maximum overall length of the sampling pipe tube network per ASD (m)	400		
Maximum overall length of the sampling pipe tube network per channel (m)	400		
Maximum overall length from the detector housing to the farthest sampling hole (m)	90	110	150
Maximum number of sampling holes per ASD	31	80	120
SEC-ASD-2002	Class A	Class B	Class C
Maximum overall length of the sampling pipe tube network per ASD (m)	700		
Maximum overall length of the sampling pipe tube network per channel (m)	400		
Maximum overall length from the detector housing to the farthest sampling hole (m)	80	100	115
Maximum number of sampling holes per ASD	62	160	240
Maximum number of sampling holes per channel	31	80	120
SEC-ASD-2002	Class A	Class B	Class C
Maximum overall length of the sampling pipe tube network per ASD (m)	700		
Maximum overall length of the sampling pipe tube network per channel (m)	400		
Maximum overall length from the detector housing to the farthest sampling hole (m)	70	90	90
Maximum number of sampling holes per ASD	62	160	240
Maximum number of sampling holes per channel	15-16	40	60

Technical Data

Supply Voltage Range		14 - 30	VDC
Nominal voltage		24	
Maximum power consumption at 24 VDC, measured at maximum fan speed (not under load):			
SEC-ASD-2001	Normal State	412	mA
	Alarm simultaneously on SSD I, SSD II	425	
SEC-ASD-2002	Normal State	447	
	Alarm simultaneously on SSD I, SSD II	468	
SEC-ASD-2004	Normal State	467	
	Alarm simultaneously on SSD I, SSD II	490	

Technical Data (cont'd)

Switch-on current peak at 24 VDC		500	mA
		max 10	ms
Sampling pipe length		Complies with general system limits according to EN 54-20	
Sampling pipe diameter		20/25	mm
Maximum number os sampling holes		Complies with general system limits according to EN 54-20	
Sampling hole diameter		2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7	
Response range, smoke sensor sensitivity		EN 54-20, Class A, B, C	
Ingress protection type according to IEC 60529 / EN60529		IP54	
Operating temperature range		-20° to +60°	C
Maximum permissible temperature fluctuation of detector housing and sampling pipe in operation (condensation not permitted)	Sensitivity range 0.01 to 0.5% / m	Sensitivity range ≥ 0.5%/m	
	60	80	K
Maximum permissible storage temperature of the detector housing without con-densation		-30° to +70°	C
Ambient pressure difference between detector housing and sampling pipe (sampling holes)		Must be identical	
Ambient condition humidity detector housing, briefly without condensation		95	% rel.
Ambient condition humidity detector housing sampling pipe continuous		70	humidity
Maximum load capacity relay contact		50	VDC
		1	A
		30	W
Maximum load capacity of the open collector output (dielectric strength 30 VDC)		100	mA
Terminal cross-section power supply		2.5	mm2
Connection terminal cross-section inputs, outputs		1.5	
Cable screw unions for cable diameters	5 to 12 (M20) / 9 to 18 (M25)		mm
Sound pressure level compliant with ISO 3744 at fan speed	7,000	20,000	RPM
	21	40	dB(A)
Housing	Material	PC ABS	
	Flammability Class UL	94-V0	
	Colour compliant with NCS	S 8005 R80B (anthracite)	
Approvals - Activfire Listing		afp-4036	
Dimensions W x H x D (includes connections)		265 x 431 x 148.8	mm
Weight SEC-ASD-2001 (with SSD)		3.415	Kg
Weight SEC-ASD-2002 (with SSD)		3.981	
Weight SEC-ASD-2004 (with SSD)		4.12	
Weight SEC-SSD-1030		0.388	

Ordering Information

- ASD 1 Channel, (req's 1 smoke sensor device - SSD): SEC-ASD-2001
- ASD 2 Channel, (req's 2 smoke sensor device - SSD): SEC-ASD-2002
- ASD 4 Channel, (req's 2 smoke sensor device - SSD): SEC-ASD-2004
- SSD ordered separately: SEC-SSD-1030

Scope of Delivery

- SEC-ASD-200X: Each (1)
- SEC-SSD-1030: Each (1)