Aspiris Azure

Product Overview

The Aspiris Azure ASD range consists of four (4) major variants.

Relay only devices

- Aspiris Azure 200r
- Aspiris Azure 300r

Relay and Networkable devices

- Aspiris Azure 500s
- Aspiris Azure 2000s

The Aspiris Azure 200r/300r/500s are single pipe ASDs with varying maximum amounts of sampling holes and area coverage as well as fan speed adjustability.

The Aspiris Azure 2000s and its sub variants are four pipe devices.

- Azure 2000s/1a - base model
- Azure 2000s/4a – pipe scanning model
- Azure 2000s/4a16 – pipe scanning model with 16 relays.



Aspiris Azure 200r/300r/500s



Aspiris Azure 2000s

Item Numbers	
Aspiris Azure 200r	7100-0200
Aspiris Azure 300r	7100-0300
Aspiris Azure 500s	7100-0500
Aspiris Azure 2000s/1a	7100-2001
Aspiris Azure 2000s/4a	7100-2004
Aspiris Azure 2000s/4a16	7100-2016

Ampac

Fire detection and evacuation solutions that save lives

PDS7100-0001

Aspiris Azure 200r Specification

SMOKE DETECTION PRINCIPLE	
Forward light scattering mass detection	
Smoke sensitivity	
Smoke detection range	0.001~25%/m
Alarm sensitivity range	0.005~20%/m
NOTE: Operation of the Detector beyond 12%/m obscuration is not allowed per AS1670.	
Sampling pipe	
Material	ABS/UPVC
Metal fabrication	25 mm
NOTE: Per AS7240-20 the sampling pipes and fittings shall have adequate mechanical strength and temperature resistance.	

MAXIMUM PIPE LENGTH	
AS7240-20 Class A: Maximum 6 holes in total	
Single pipe	40m (6 holes)
Two branched pipes	2 x 30m (6 holes)
Four branched pipes	4 x 20m (6 holes)
AS7240-20 Class B 8 holes total Class C 12 holes total	
Two branch pipes	2 x 30m (8 holes(B) 12 holes (C))
Four branch pipes	4 x 20m (8 holes(B) 12 holes (C))
NOTE: Please refer to the Aspiris Design manual for the relationship between pipe length and the number of sampling holes. The AspirisFlow air-sampling pipe network design tool can be used to calculate the maximum transport time and sampling hole sensitivity.	

CONTROL
Buttons <Reset>, <Isolate>, <Silence> & <Test>

DISPLAY	
20-segment smoke level bar graph	
6-digits numerical LEDs display	Real time smoke level Real time airflow level Device address Active event & codes
4 fire alarm indicators	Alert, Action, Fire 1, Fire 2
4 fault indicators	Detector, Airflow, System, Auxiliary
Isolated indicator and beeper	

OPERATING CONDITIONS	
Ambient temperature	0~40°C (0~104°F)
Pipe flow normalized to 100%	-20~60°C (-4~140°F)
Humidity	10~95% RH non-condensing

POWER
24 ±4.8 Vdc
220 mA

DIMENSIONS & WEIGHT
92(h) x 201(w) x 216(l) mm
Net weight: 2.5 kg

Aspiris Azure 300r Specification

SMOKE DETECTION PRINCIPLE	
Forward light scattering mass detection	
Smoke sensitivity	
Smoke detection range	0.001~25%/m
Alarm sensitivity range	0.005~20%/m
NOTE: Operation of the Detector beyond 12%/m obscuration is not allowed per AS1670.	
Sampling pipe	
Material	ABS/UPVC
Metal fabrication	25 mm
NOTE: Per AS7240-20 the sampling pipes and fittings shall have adequate mechanical strength and temperature resistance.	

MAXIMUM PIPE LENGTH	
AS7240-20 Class A: Maximum 12 holes in total	
Single pipe	75 m (12 holes)
Two branched pipes	2 x 60 m (12 holes)
Four branched pipes	4 x 30 m (12 holes)
AS7240-20 Class B 16 holes Class C 32 holes total	
Single pipe	75m (16 holes)
Two branch pipes	2 x 60m (16 holes(B) 32 holes(C))
Four branch pipes	4 x 30 m(16 holes(B) 32 holes(C))
NOTE: Please refer to the Aspiris Design manual for the relationship between pipe length and the number of sampling holes. The AspirisFlow air-sampling pipe network design tool can be used to calculate the maximum transport time and sampling hole sensitivity.	

CONTROL
Buttons <Reset>, <Isolate>, <Silence> & <Test>

DISPLAY	
20-segment smoke level bar graph	
6-digits numerical LEDs display	Real time smoke level Real time airflow level Device address Active event & codes
4 fire alarm indicators	Alert, Action, Fire 1, Fire 2
4 fault indicators	Detector, Airflow, System, Auxiliary
Isolated indicator and beeper	

OPERATING CONDITIONS	
Ambient temperature	0~40°C (0~104°F)
Pipe flow normalized to 100%	-20~60°C (-4~140°F)
Humidity	10~95% RH non-condensing

POWER
24 ±4.8 Vdc
260 mA

DIMENSIONS & WEIGHT
92(h) x 201(w) x 216(l) mm
Net weight: 2.5 kg

Aspiris Azure 500s Specification

SMOKE DETECTION PRINCIPLE	
Forward light scattering mass detection	
Smoke sensitivity	
Smoke detection range	0.001~25%/m
Alarm sensitivity range	0.005~20%/m
NOTE: Operation of the Detector beyond 12%/m obscuration is not allowed per AS1670.	
Sampling pipe	
Material	ABS/UPVC
Metal fabrication	25 mm
NOTE: Per AS7240-20 the sampling pipes and fittings shall have adequate mechanical strength and temperature resistance.	

MAXIMUM PIPE LENGTH	
AS7240-20 Class A: Maximum 30 holes in total	
Single pipe	100 m (18 holes)
Two branched pipes	2 x 80 m (30 holes)
Four branched pipes	4 x 60 m (30 holes)
AS7240-20 Class B & C: Maximum 60 holes in total	
Two branch pipes	2 x 80m (40 holes)
Four branch pipes	4 x 60 m (60 holes)
NOTE: Please refer to the Aspiris Design manual for the relationship between pipe length and the number of sampling holes. The AspirisFlow air-sampling pipe network design tool can be used to calculate the maximum transport time and sampling hole sensitivity.	

CONTROL
Buttons <Reset>, <Isolate>, <Silence> & <Test>

DISPLAY	
20-segment smoke level bar graph	
6-digits numerical LEDs display	Real time smoke level Real time airflow level Device address Active event & codes
4 fire alarm indicators	Alert, Action, Fire 1, Fire 2
4 fault indicators	Detector, Airflow, System, Auxiliary
Isolated indicator and beeper	

OPERATING CONDITIONS	
Ambient temperature	0~40°C (0~104°F)
Pipe flow normalized to 100%	-20~60°C (-4~140°F)
Humidity	10~95% RH non-condensing

POWER
24 ±4.8 Vdc
175~320 mA

DIMENSIONS & WEIGHT
92(h) x 201(w) x 216(l) mm
Net weight: 2.5 kg

Aspiris Azure 2000s Specification

SMOKE DETECTION PRINCIPLE	
Forward light scattering mass detection	
High power blue LED	
Smoke sensitivity	
Smoke detection range	0.001~25%/m
Alarm sensitivity range	0.005~20%/m
NOTE: Operation of the Detector beyond 12%/m obscuration is not allowed per AS1670.	
Sampling pipe	
Material	ABS/UPVC
Metal fabrication	25 mm (1")
NOTE: Per AS7240-20, the sampling pipes and fittings shall have adequate mechanical strength and temperature resistance.	

MAXIMUM PIPE LENGTH AND SAMPLING HOLES
AS7240-20 Class A: Maximum 40 holes total
4 x 100 m (4 x 10 holes)
3 x 100 m (3 x 13 holes)
2 x 100 m (2 x 20 holes)
AS7240-20 Class B: Maximum 60 holes total
4 x 100 m (4 x 15 holes)
3 x 80 m (3 x 20 holes)
2 x 60 m (2 x 25 holes)
AS7240-20 Class C: Maximum 100 holes total
4 x 60 m (4 x 25 holes)
NOTE: Please refer to the Aspiris Design Manual for the relationship between pipe length and the number of sampling holes. The AspirisFlow air-sampling pipe network design tool can be used to calculate the maximum transport time and sampling hole sensitivity.

CONTROL
Buttons <Reset>, <Isolate>, <Silence> & <Test>

DISPLAY	
20-segment smoke level bar graph	
6-digits numerical LEDs display	Real time smoke level Real time airflow level Device address Active event & codes
4 fire alarm indicators	Alert, Action, Fire 1, Fire 2
4 fault indicators	Detector, Airflow, System, Auxiliary
Isolated indicator and beeper	

OPERATING CONDITIONS	
Ambient temperature	0~40°C (0~104°F)
Pipe flow normalized to 100%	-20~60°C (-4~140°F)
Humidity	10~95% RH non-condensing

POWER
24 ±4.8 Vdc
620 mA (Nominal, Aspirator speed 5)
860 mA (Maximum, Aspirators speed 10, Alarm Status)

DIMENSIONS & WEIGHT
108(h) x 259(w) x 415(l) mm
Net weight: 5.2 kg