Aspiris Cobalt

Product Overview

The Aspiris Cobalt ASD range has two (2) variants with all products being networkable as well as two relay outputs. All Aspiris Cobalt devices feature ten (10) fan speeds. The Aspiris Cobalt range is also compatible with the Aspiris Remote Display Unit.

HM1

The Aspiris Cobalt HM1 is a single pipe device. The HM1 is a cost-effective device that supports class A/B/C requirements for Aspirating Smoke Detection. The HM1 can be used as an ASD that supports one (1) Zone.

HM2

The Aspiris Cobalt HM2 is a two (2) pipe device. The HM2 is a cost-effective device that supports class A/B/C requirements for Aspirating Smoke Detection. The HM2 can be used as an ASD that supports two (2) zones.

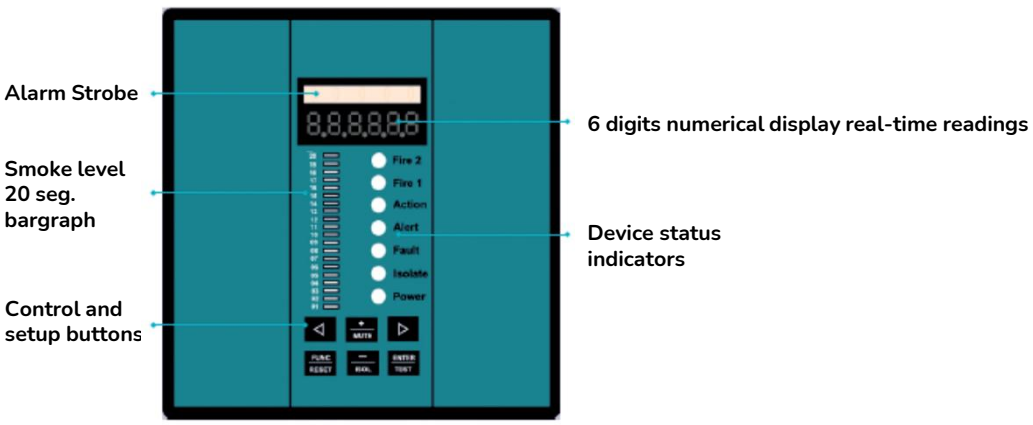
The enclosure for the HM1 and HM2 are identical, with the HM1 having one (1) detection module and the HM2 having two (2) detection modules.

An additional IO board is available for mounting internally if more than 2 relays are required and more than 1 input is required.



Aspiris Cobalt HM2 7100-3001

Item Numbers	
Aspiris Cobalt HM1	7100-3001
Aspiris Cobalt HM2	7100-3002
Aspiris Cobalt HM1 exhaust adapter	7100-3011
Aspiris Cobalt HM2 exhaust adapter	7100-3012
Aspiris Cobalt HM I/O Board	7100-3013
Aspiris Remote Display Unit (RDU)	7100-4000



Aspiris Remote Display Unit 7100-4000

Specification

MODELS			
HM1	Single Channel ASD	**HM2**	Dual Channel ASD

SPECIFICATION	HM1	HM2
Smoke detection light source	High power blue LED	
Number of high sensitive smoke chamber	1	2
Smoke detection principle	Forward light scattering mass detection	
Smoke detection range	0.02~25%/m	
Alarm sensitivity	0.1~ 20%/m mm	
Sampling pipe	Material: ABS/CPVC, OD: 25 mm	
Max. capillary tube/pipe length	30 m*	
Pipe length (linear/branch)	105/260 m	2 x 105 m, 2 x 260 m
Max. no. of sampling holes (Class A/B/C)	8 /16/32	16 / 32 /64
Alarm levels and time delay	Alert (0~60 sec.) Action (0~60 sec.) Fire-1 (0~60 sec.) Fire-2 (0~60 sec.)	
Numerical display	Yes (four digit) status bar	
LED indicators	5-color (Green/Yellow/Blue/Red/Purple) status bar	
Control function on display	Reset, Isolate, Mute, Test	
Alarm buzzer	Yes, with different Alarm Tone and Fault Tone background level learning	
Alarm strobe	Yes	
Alarm flashing mode	Slow, Fast, Burst	
Environment smoke learning	24 hours, 365 days non-stop environmental background level learning	
Number of air flow sensors	1	2
Flow detection principle	Heat mass detection	
Flow monitoring	Pipe flow normalized to 100% Flow high and low flow faults Adjustable flow detection sensitivity Adjustable flow fault threshold	
Aspirator quantity	1	2
Aspirator speed adjustment	1~10	
Relay output	2 relays (configurable) Rating: 2A @ 30 Vdc	4 relays (configurable) Rating: 2A @ 30 Vdc
General purpose inputs	1 x GPI (configurable)	2 x GPI (configurable)
NOTE: UDI, User Defined input	**GPI Functions:** RESET/ISOLATE/MUTE/ TEST/MAINS FAULT/BATT. FAULT/POWER FAULT/SENSITIVITY MODE 1/SENSITIVITY MODE 2/SCAN/UDI-1/UDI-2/UDI-4/UDI-5	
Communication	RS-485 network. Max. number of devices on network: 250 Max. total cable length for all Cobalt Devices: 1.2 km. Supports Modbus RTU open protocol	
Event logs	Number of Events: 183,000 Event type: Alarm/Fault/Operation/Smoke/Flow/Auxiliary Sensors	
Voltage	18 ~ 30Vdc	
Current @24V	145 mA~185 mA	290 mA~370 mA
Dimension	321.7(h) x 154(l) x 97.4(w) mm)	
Weight	2.2 kg	2.3 kg
IP rating	IP51	IP51
Operating conditions	Ambient temperature: 0 ~ 40°C Sampling air temperature: -20 ~ 60°C Humidity: 10~95% RH non-condensing	