AUTROSENSE CASCADE COMMAND DISPLAY MODULE

Aspirating systems
Product Datasheet

Features

- Modular Design: Separate centrally-controllable detector modules allow efficient piping and discrete zones with no overlap.
- Zoned aspirating smoke detection: Individual detector modules provide detection for individual areas or zones, specific zone alarm information can be transmitted to the main fire alarm panel via dedicated alarm relays within each detector module.
- Simplified installation: Ingenious docking station design allows detectors to be easily connected together as a group. Sensitive electronics are easily removed to ensure they will not be damaged during first fix installation. Aspirating pipework and cable entries can easily be made into either the top or the bottom of the unit.
- Intuitive user interface: Bright easy-to-see color TFT display and universal navigation and control buttons take the guesswork out of programming and diagnostics.
- Easy pipe connection: The quick fit pipe adaptor system locks down securely, yet leaves plenty of room for easy pipe connection and removal.
- Quick location of smoke: Each detector module is self-contained, which means no delays in determining in which zone (sampling pipe) smoke is present.

General

AutroSense Cascade is a scalable aspirating smoke detection solution that makes installation easier, maintenance quicker, and takes applications further than traditional air sampling detectors. Two basic module types comprise the AutroSense Cascade solution: a display module, and a detector module. Each detector module can accommodate up to 250 meters combined sampling pipe. Display modules and detector modules communicate by RS-485 interconnections.

Display modules are available in three configurations: Standard with TFT color display, status LED's and navigation buttons, Minimum with only status LED's, and Command which is similar to the Standard but with the added functionality to control various modules over SenseNET. The Minimum and Standard Display Modules can each support up to 8 detector modules, while the Command Display Module can support up to 127 modules across the SenetNET network.

Command display module

The Command Display Module features a user interface which consist of a TFT color display, navigation buttons and status LED's. Configuration of the Command Display Module (and associated detectors across the SenseNET network) can be done via the user interface, or via a computer using Remote software. The TFT color display support simple operations like changing configuration options via a menu driven structure, but also advanced features like viewing the chart recording in graphical format.

The Command Display Module support up to 127 modules across the SenetNET network. The 127 modules can be any combination of AutroSense Cascade modules as well as Micra's and HSSD2's. The use of the Command Display Module creates an easy to use central point from where all modules/detector on the network can be accessed, and all alarms and faults are reported.

Perfect solution

Thanks to advanced features that make it virtually impervious to dust and dirt, AutroSense Cascade is ideal for use in hostile environments that would disable other kinds of smoke detectors. Forward scattering optical detection adds early warning capability without the risk of nuisance alarms normally associated with high sensitivity smoke detection, while exclusive environmental compensation technology adds a high degree of reliability to an already solid detection solution.

AUTRONICA®

Part number	Description
116-5861-018.2802	AutroSense Cascade Command Display Module
Other AutroSense Cascade modules:	
116-5861-018.2800	AutroSense Cascade Minimum Display Module
116-5861-018.2801	AutroSense Cascade Standard Display Module
116-5861-018.2803	AutroSense Cascade Detector Module
Accessories	*One of the following units can be used (see description below):*
116-BN-303	Single Monitored Input Unit
116-BN-304	Single Monitored Input/Output Unit
116-5861-018.9027	Cascade dust filter

Technical Specifications

Electrical	
Operating voltage	18 to 30 VDC
Current consumption	Display Module: 204 mA - Minimum Display Module 232 mA - Standard Display Module 232 mA - Command Display Module Detector Module: 260 mA - fan speed 1 380 mA - fan speed 6 (default speed) 940 mA - fan speed 16
Detection	
Detection principle	Laser light scattering mass detection and particle evaluation
Particle sensitivity range	0.003 to 10 microns
Sampling pipe	
Length	Up to 250 m (820 ft.) combined per detector module
Quantity sampling holes	Up to 20 - Class A per detector module Up to 40 - Class B per detector module Up to 50 - Class C per detector module
Inlet size	27 or 25 mm (1.06 or 0.98 in) outer diameter
Inlet location	Top or bottom
Exhaust size	27 or 25 mm (1.06 or 0.98 in) outer diameter
Exhaust location	Top or bottom
Inlet quantity	1 per detector module
Input	
Input quantity	2 per module
Input type and rating	Supervised
Termination	15 KΩ 5% 1/4 W
Programmable	Yes
Output	
Output quantity	3 per module
Output type and rating	Voltage free (contact rating 2 A at 30 VDC /NO/NC/C)
Programmable	Yes
General	
Status indication	LED's
User interface	TFT and navigation buttons on Normal and Command Display Modules
Alarm levels	4 (Aux, Pre-alarm, Alarm and Alarm 2)
Event log	20 000 events per module
RS485 support	Yes (SenseNET and SeneseNET+)
Connectivity	USB (x2)
Module type	Command Display Module

Physical	
Physical dimensions	W x D x H 110.5 x 133.5 x 300 mm (4.35 x 5.25 x 11.8 in)
Net weight	Display Module: 1.18 Kg (2.6 lb.) Detector Module: 1.57 Kg (3.46 lb.)
Colour	Cream
Mounting type	Surface Mount
Cable entries	2 at the bottom, 2 at the rear, 2 at the top on Detector Module, and 3 at the top on the Display Module
Cable entry size (top and bottom)	20 mm (0.5 in)
Detector module orientation	Vertical (0 deg or 180 deg) or horizontal
Environmental	
Operating temperature	Equipment: -20 to +60 °C (-4 to +140 °F) Sampled air: -20 to +60 °C (-4 to +140 °F)
Relative humidity	0 to 95% noncondensing
Environment	Indoor
IP rating	IP40
Standards & regulation	
Certification	EN54-20
Environmental	RoHS, REACH
Chart recorder	
Sampling period	Adjustable between 1s and 60 s
Capacity	1 months @ 1s / Up to 5 years @ 60 s
Values recorded	Detector value, 4 alarm level values, flow value and temperature (all simultaneously)

Interfacing with Autroprime or AutroSafe

For interfacing with Autroprime or AutroSafe fire detection systems, BN-303 or BN-304 is required.

BN-304 is to be used when there is a need for resetting latching alarms on the AutroSense Cascade.