

life feeling...

...safe living

DDH Duct sensing solution



DDH Duct Detector

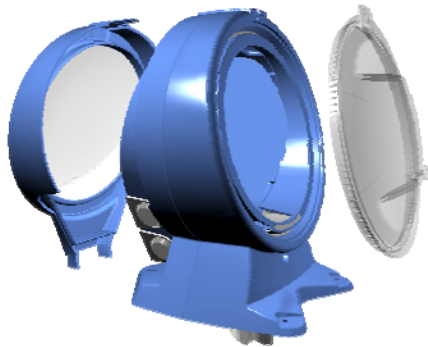
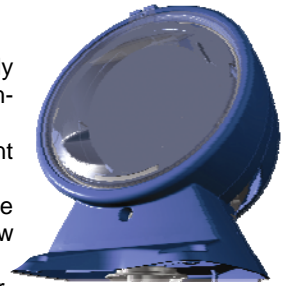
Smoke Detector Housing for Duct Installation

ARGUS SECURITY Duct Smoke Detector provides early warning of smoke by continually sampling air movement within heating and ventilation ducts in industrial and commercial premises.

The duct smoke detector provides switching facilities to shut down associated fans to prevent the spread of smoke and toxic gases into other areas.

DDH has been designed to operate in ventilation air ducts and combines an optical smoke detector, housing and sampling tube. **DDH** has been designed to maximise venturi airflow through the optical smoke detector.

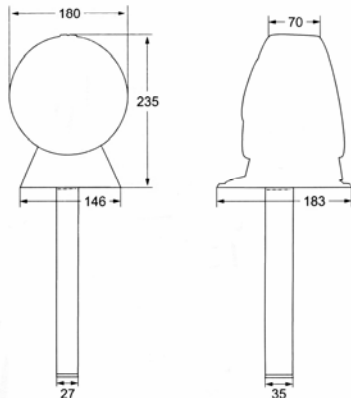
DDH is specifically recommended for installations in ducts with low airflow. The device operates in air speeds between 0.5m/s to 20m/s.



CHARACTERISTICS

- One tube air sampling system
- New design of sampling tube
- Test Hole on cover
- Simple installation
- Sensitive flow indicator
- Filter for dusty environments
- Simple service and maintenance
- Installer friendly connection of cables
- Easy mounting of sampling tube
- Maximised venturi air flow through the optical smoke detector chamber
- Suitable for Conventional or Intelligent fire systems

DIMENSIONS (mm)



TECHNICAL DATA

All models: Dimensions 180x183x235mm Weight 700g

DDH-Pro

Detector Type: AURORA S100 conventional smoke detector
VEGA V100 Intelligent smoke detector

DDH-L

Detector Type: AURORA S100 Conventional smoke detector
Current limit: 1.000 ohm resistor (**DDH-L1000**)
Current limit: 470 ohm resistor (**DDH-L470**)

DDH-R

Detector Type: AURORA S100 Conventional smoke detector
Relay contacts

DDH-W

Detector Type: SAGITTARIUS SG100 Wireless analogue intelligent smoke detector

Air Sampling Tube: the length of the sampling tube is determined by the width of the ventilation duct.

The sampling tube is available in three lengths: 0.6m, 1.5m and 2.8m. If the ventilation duct is wider than 0.6m the sampling tube must penetrate the whole duct.

INSTALLATION

The sampling tube is made of aluminium and can easily be shortened to suit the diameter of the duct. The hole diameter is 38mm. With insulated or circular ducts use the mounting bracket should be used and this has a hole diameter of 50mm.

AIR FLOW MONITORING

The detector is fitted with a red plastic switch tongue which provides a simple confirmation that there is no leakage and that the air flow from the duct is passing through the housing. **When the detector is correctly installed the tongue is bent outwards by the air flow.**

FUNCTION TEST

Once the device has been installed the detector should be tested. Test the detector using a test aerosol from an approved manufacturer in accordance with their application instructions.

SAMPLING TUBE

The new design of the sampling tube maximises the venturi effect through the optical smoke detector chamber. The slots of the sampling tube, for both inlet and outlet provide maximum air flow making the sampling tube "self adjusting" with a stable and uniform flow across the whole section of the ventilation duct.



SMOKE Detectors

DDH series is intended to use the following ARGUS Security detectors range:

AURORA S100 *Conventional Photo Detector:*

Offering superior wide spectrum detection of smoke aerosols generated by most type of fires and providing reliable early warning. The detector design employs the very latest 'circuit on board' processing technology to deliver ultra stable performance under all conditions.



AURORA S100 TECHNICAL FEATURES	
Power Supply	10—30Vdc
Current Consumption @ 24V	70uA typical
Alarm current (max)	50mA
Temperature / Humidity	-30°C +70°C / 95%RH
Dimensions	H54mm, D110mm
Weight	110g

VEGA V100 *Intelligent Analogue Photo Detector:*

The detector design incorporates an advanced algorithm which can efficiently analyze the status of a protected area guaranteeing a high rejection of false alarms. The chamber employs unique and patented features to minimize contamination due to the entrance of dust and other air borne materials. ARGUS Security VEGA protocol is designed to install up to 240 devices on the loop. The detector incorporates a bidirectional isolator to protect and maintain communication to all loop powered devices.


VEGA V100 TECHNICAL FEATURES	
Power Supply	15—40Vdc
Current Consumption @ 24V	70uA typical
LED Current Consumption	8mA
Temperature / Humidity	-30°C +70°C / 95%RH
Dimensions	H54mm, D110mm
Weight	110g

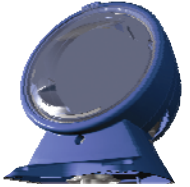

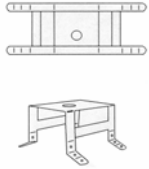

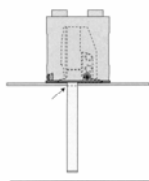

SG100 *Wireless Intelligent Analogue Photo Smoke Detector:*

Designed to be seamlessly integrated into the VEGA Intelligent system, this device provides a very simple and rapid installation without cabling. A symmetrical smoke chamber guarantees optimal smoke sensitivity from all directions. Highly secure and reliable transmission achieved through bi-directional communication and patented orthogonal antenna. Immediate transmission of alarm, fault and tamper signals.

SAGITTARIUS SG100 TECHNICAL FEATURES	
Operational frequency	868 Mhz
Radiated power	0.01 – 5mW
Modulation type	GFSK
Frequency channel	7
Primary battery	CR123A
Secondary battery	CR2032A
Dimensions	H54mm, D110mm
Weight	140g
Temperature / Humidity	-30°C +70°C / 95%RH



DDH series includes the following products range, ancillary and complementary devices.

	<p>DDH-Pro Duct Detector Housing for Intelligent or Conventional detector (<u>without</u> current limitation) DDH-L470 Duct Detector Housing for Conventional detector (<u>with</u> current limitation 470ohm res.) DDH-L1000 Duct Detector Housing for Conventional detector (<u>with</u> current limitation 1.000ohm res.) DDH-R Duct Detector Housing for Conventional detector with RELAY DDH-W Duct Detector Housing for Wireless Analogue Intelligent detector</p>
	<p>TV-0.6 Venturi sampling pipe 0,6m length TV-1.5 Venturi sampling pipe 1,5m length TV-2.8 Venturi sampling pipe 2,8m length</p>
	<p>DDH-bracket Mounting bracket for insulated or circular ducts</p>
	<p>DDH-F1/10 Pack of 10 filters</p>
	<p>DDH-cover Waterproof cover (outdoor or special environment applications)</p>
	<p>DDH-booster Venturi sampling pipe with booster fan (require 24Vac power supply)</p>

All devices are supplied with the benefit of a limited

3 YEARS WARRANTY

