



INTELLI-SENSE

Addressable Device

INSTALLATION MANUAL



TI-002229
DUCT DETECTOR HOUSING FOR INTELLI-SENSE / PRO-SENSE DETECTORS

This Duct Detector Housing (DDH) is designed to provide capability to mount the indicated Aurora / Vega smoke detector. When installed correctly it will then allow monitoring of airflow in heating and ventilation ducts for fire combustion products. The DDH must be fitted with a Aurora conventional / Vega intelligent smoke detector linked to a compatible control panel and a suitable sampling tube installed as shown. DDH has been designed to allow optimum airflow through the detector and it is recommended for installations in ducts with low airflow and **with an air speed between 0.5 m/s and 20 m/s**.

CHARACTERISTICS

- Easy to install
- Installer friendly cabling
- Simple servicing and maintenance
- Single tube air sampling system
- Sampling tube with innovative design
- Sampling tube easy to mount
- Test hole positioned on cover.

Compatible detectors: **TI-002265** (Aurora smoke detector)
V100 (Vega smoke detector)

The air sampling tube is supplied in three lengths: 0.6 m (**DDH-ST0.6**)
1.5 m (**DDH-ST1.5**)
2.8 m (**DDH-ST2.8**)

If the ventilation duct is wider than 0.6 m the sampling tube should penetrate the whole duct.

Mounting bracket (for insulated / circular ducts): **DDH-BR**

Weight: 660 g (without the detector installed)

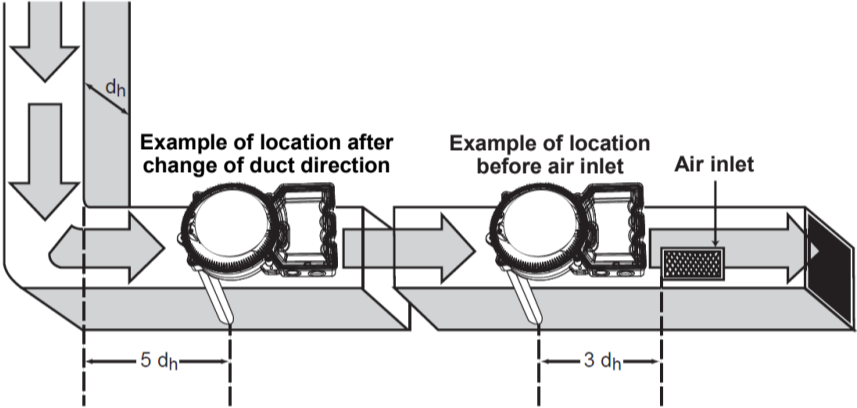
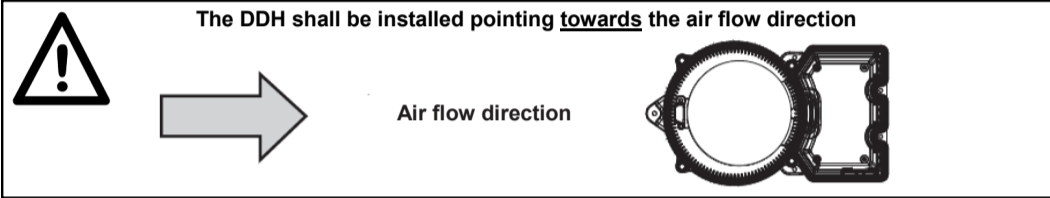
INSTALLATION

The sampling tube is made of aluminium and can easily be shortened to suit the diameter of the duct.
With insulated or circular ducts use the DDH mounting bracket.

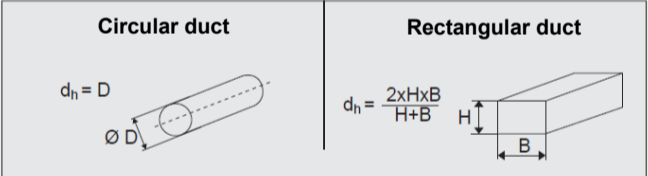
MOUNTING AND POSITIONING

The DDH can be installed on any side of the duct.
We recommend that the DDH is mounted at a proper distance from heating, cooling, humidity or similar devices, equal to the positioning standard of flow meters.

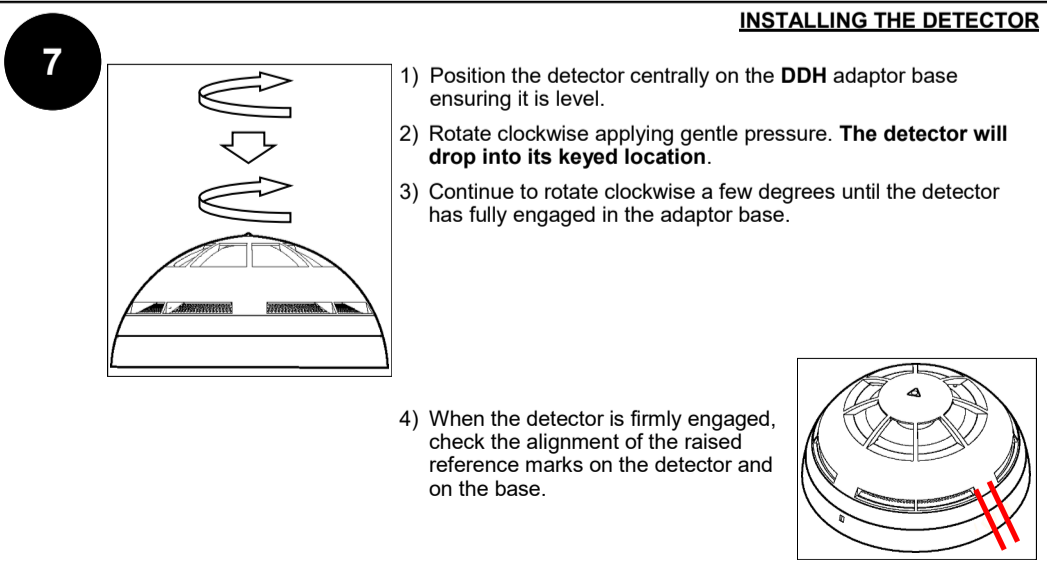
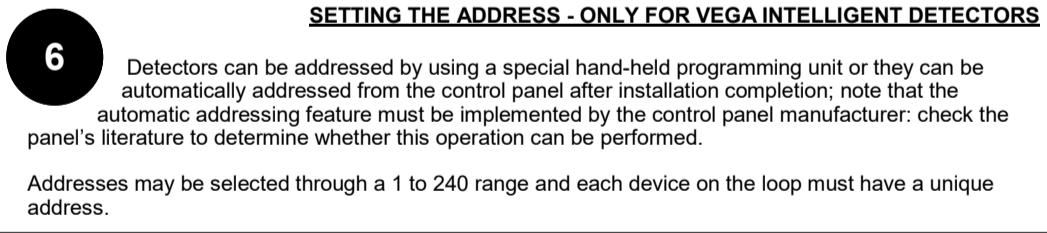
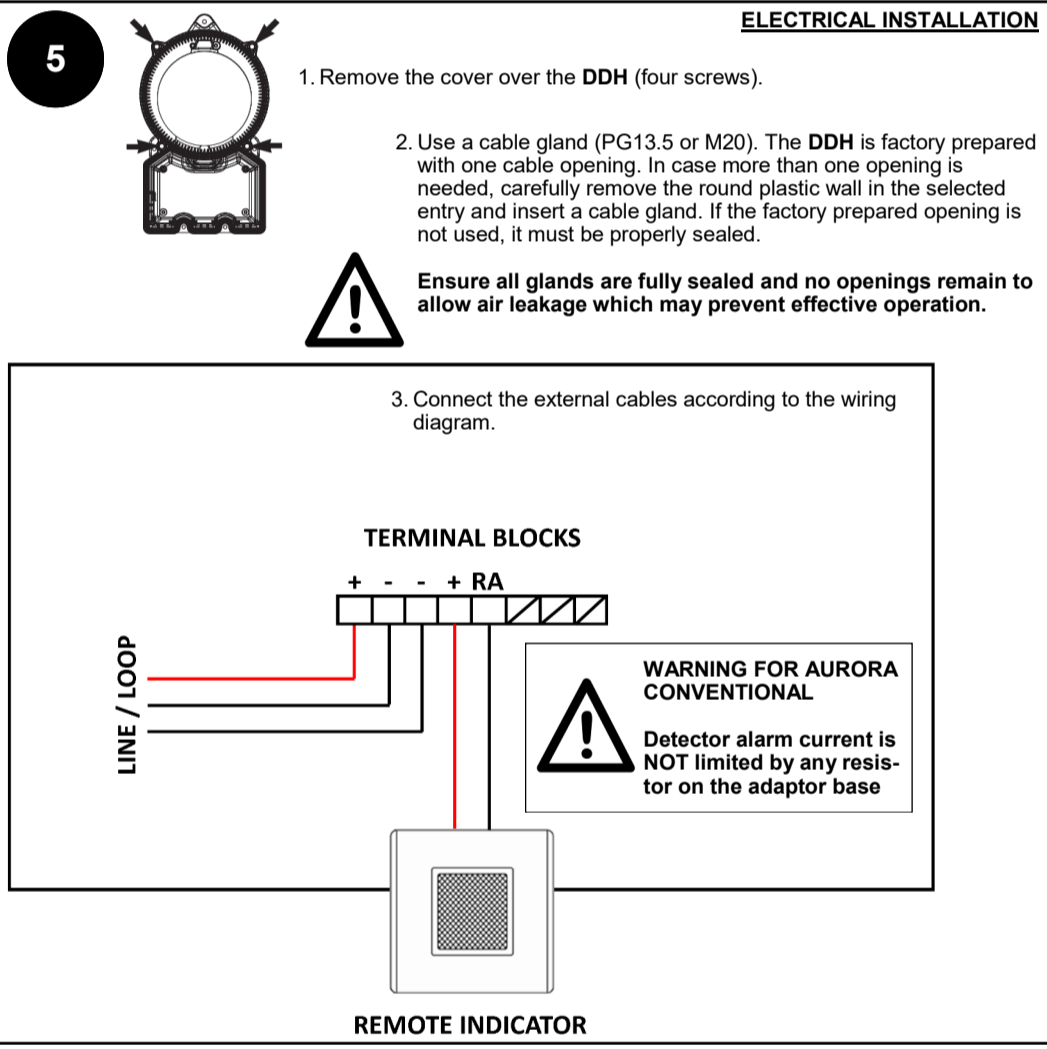
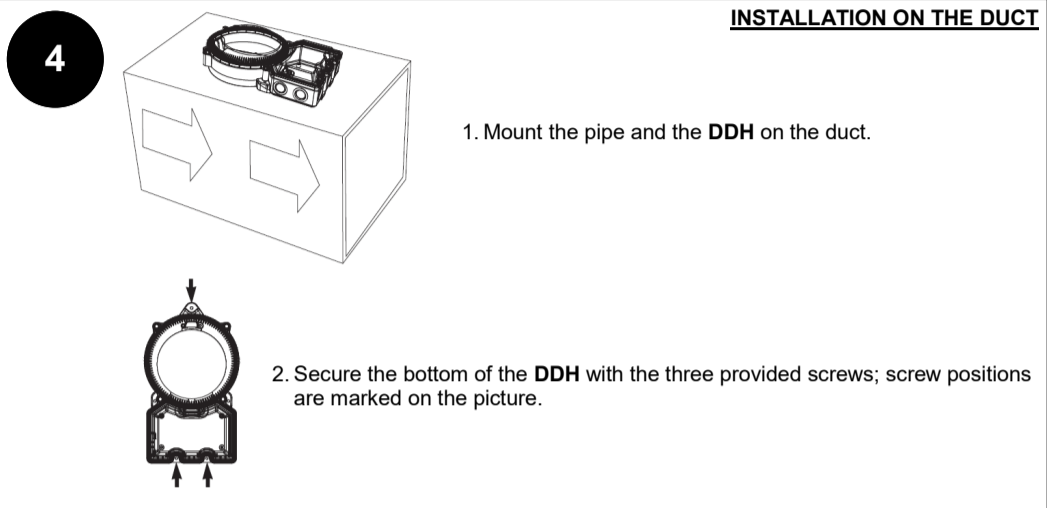
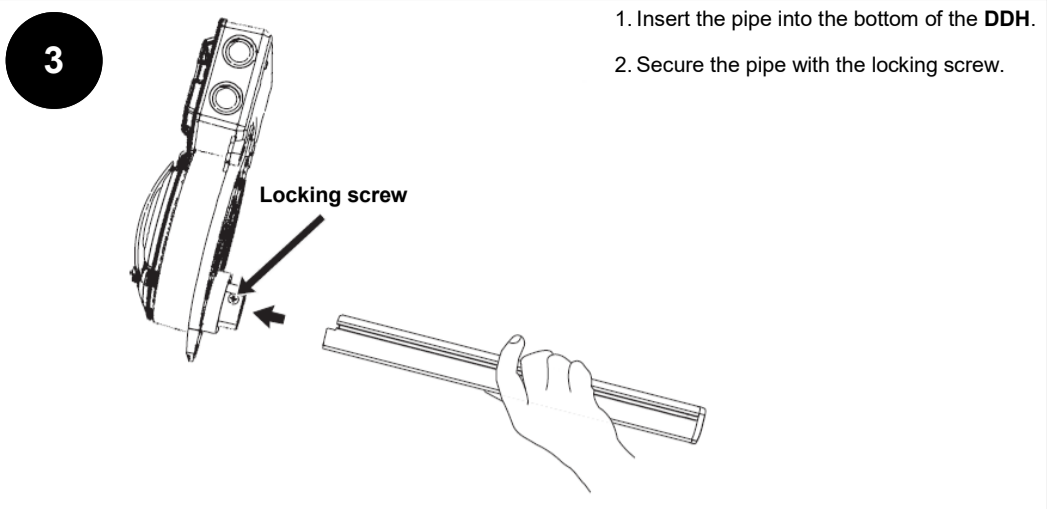
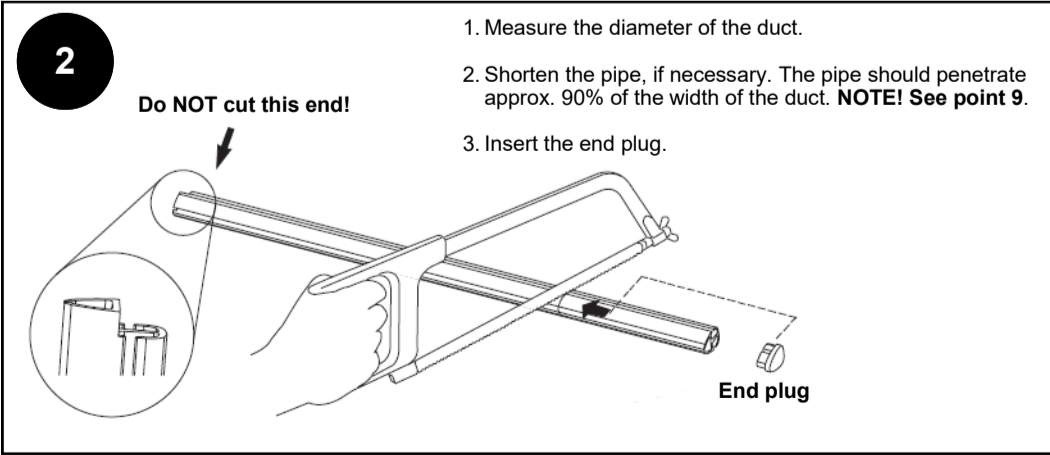
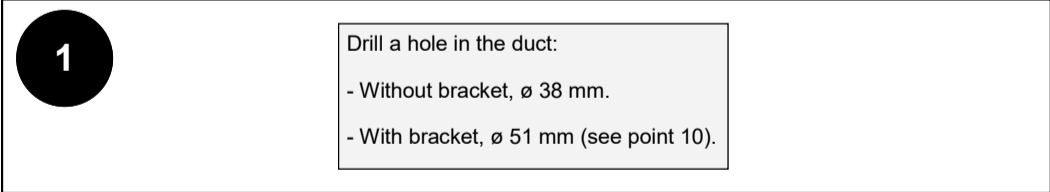
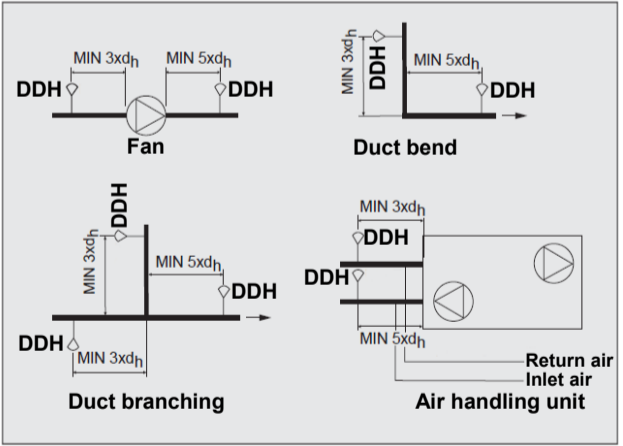
A distance of **3 times** the duct diameter should be left **before** a damper, filter or change of the duct direction.
A distance of **5 times** the duct diameter should be left **after** a damper, filter or change of the duct direction.



Hydraulic diameter



- List of sources of interference:**
- fan
 - damper
 - silencer
 - battery
 - air handling unit
 - duct bend
 - duct branching
 - duct narrowing or expansion.



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DETECTOR TESTING

Check the detector with an approved smoke detector tester.

1) Move the "test hole plug" to the side and briefly release a spray of aerosol.

2) When alarmed, the LED lit on the red light and the panel goes into alarm condition.

IMPORTANT!

Reinstall accurately the "test hole plug".

Do not drill any holes in the cover for any reason. Holes will cause air leakages and seriously interfere with the response of the detector.

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FITTING OF THE VENTURI PIPES IN DUCTS HAVING DIFFERENT DIAMETERS

Drill a hole Ø 38 mm.

Max diameter of the duct 0.6 m. Use the Venturi pipe 0.6 m. Shorten the pipe, if necessary.

Drill a hole Ø 38 mm.

Diameter of the duct bigger than 0.6 m. The Venturi pipe should penetrate the whole duct.

NOTE!

Drill a hole Ø 51 mm.

Shorten the pipe to correct length.

Insert the end plug.

Put on the plastic end gasket.

Put on the rubber gasket.

For ducts with a ø less than 0.6 m use the 0.6 m pipe.

For ducts with a ø between 0.6 m and 1.4 m use the 1.5 m pipe.

For ducts which are larger than 1.4 m use the 2.8 m pipe.

The Venturi pipe shall not protrude more than 30 mm max through the duct wall.

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BRACKET FOR CIRCULAR OR INSULATED RECTANGULAR DUCTS

If using the bracket, the diameter of the duct can be as small as 100 mm. The bracket is supplied with a rubber gasket and a sealing sleeve.

The bracket is supplied flat

The bracket can easily be bent or shaped to fit circular or rectangular duct

Drill a hole Ø 51 mm

Fix the bracket onto the duct

Rubber gasket

Sealing sleeve

Circular duct

Insulated rectangular duct

!

FINAL CHECKS

- Check that the DDH is correctly installed pointing towards the air flow in the duct.

- Ensure all glands are fully sealed and no openings remain to allow air leakage which may prevent effective operation.

- Check that the plastic plug of the test hole is properly and accurately installed.

- It is recommended that smoke from a smoke generator is introduced into the duct to check the detector's function.

WARNINGS AND LIMITATIONS

Our devices use high quality electronic components and plastic materials that are highly resistant to environmental deterioration. However, after 10 years of continuous operation, it is advisable to replace the devices in order to minimize the risk of reduced performance caused by external factors. Ensure that this device is only used with compatible control panels. Detection systems must be checked, serviced and maintained on a regular basis to confirm correct operation.

Smoke detectors may respond differently to various kinds of smoke particles, thus application advice should be sought for special risks. Detectors cannot respond correctly if barriers exist between them and the fire location and may be affected by special environmental conditions.

Refer to and follow national codes of practice and other internationally recognized fire engineering standards. Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically.

WARRANTY

All devices are supplied with the benefit of a limited 3 years warranty relating to faulty materials or manufacturing defects, effective from the production date indicated on each product.

This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage.

Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified.

Full details on our warranty and product's returns policy can be obtained upon request.

CEASEFIRE INDUSTRIES PRIVATE LTD., E6, UPSIDC Industrial area, Selaqui, Dehradun, Pin Code - 248001, Uttarakhand, India

L20-DHUB-7200 (vP.1)

Download the Ceasefire app.



Ceasefire Industries Private Limited,
Plot No. 4, Second Floor, Sector - 135,
Noida - Greater Noida Expressway,
Noida - 201 301, Uttar Pradesh (India)
t +91 120 4665800

Call our Free Hotline :
1800 120 3473 / +91 9540 666 666
or call +91 120 4223473

www.ceasefireworld.com

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