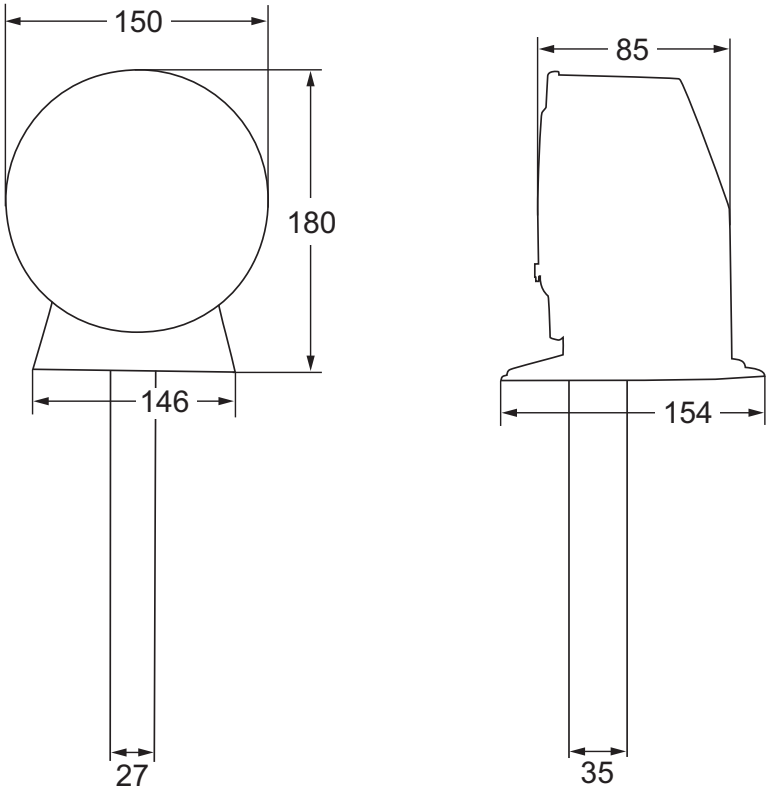
DIMENSIONS (mm)



NITTAN

UG-3 Smoke detector housing for duct installation
Instruction Manual

CHARACTERISTICS

- Patented venturi pipe and duct housing
- One-pipe air sampling system Uniguard Superflow
- New cross-section (shape) of the venturi pipe gives an optimum of venturi effect
- Test hole on cover
- Simple installation
- Sensitive flow indicator
- Simple service and maintenance
- Installer-friendly connection of cables
- Foolproof installation of venturi pipe

TECHNICAL DATA

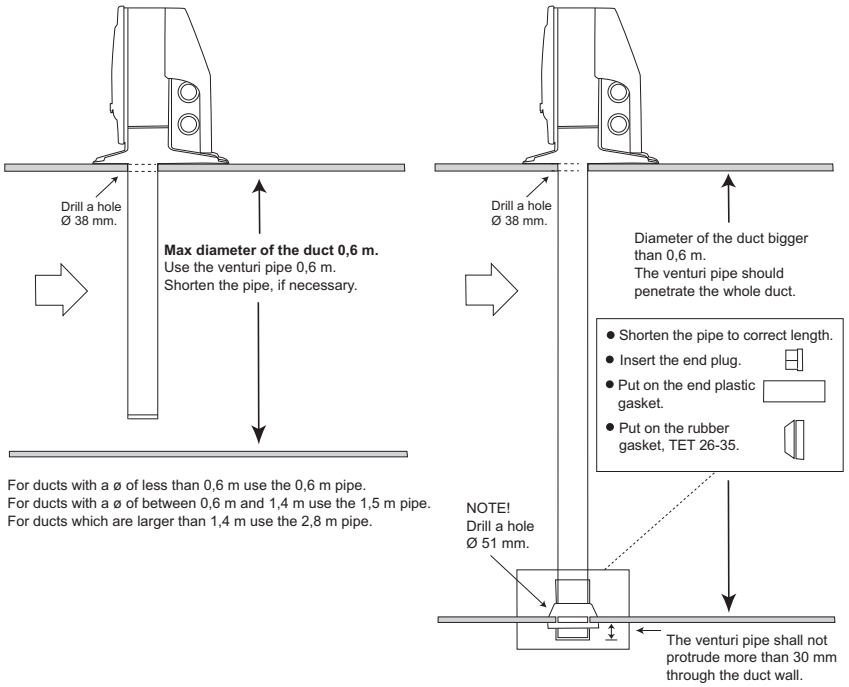
Adaptor housing:	ABS
Protection:	IP-54
Weight:	800g
Air sampling pipe:	Aluminium.

Standard length 0,6 m. Hole diameter 38 mm. The length of the venturi pipe shall be chosen based upon how wide the ventilation duct is. The venturi pipes are available in 3 lengths; 0,6, 1,5 and 2,8 m. When the ventilation duct is wider than 0,6 m (dia), the venturi pipe should penetrate the whole duct.

FUNCTION

Uniguard Superflow has been developed to detect smoke in ventilation ducts and consists of an adaptor system where both venturi pipe and housing are specially designed for optimum airflow through the smoke detector.

Uniguard Superflow has 4 premounted IP67 approved cable entries with built-in cable anchorage for diameter 4-11 mm, type Klikseal. The detector has a bayonet fitting to simplify mounting and removal.



BASIC PRINCIPLES FOR POSITIONING

For the airflow through the adaptor to be representative of the airflow in the ventilation duct, install the detector at a place where flow meters etc. should normally be mounted.

ORDER EXAMPLE

Item code	Designation
UG-3/NIT	Uniguard Superflow housing

ACCESSORIES

Item code	Designation
UG-MB	Mounting bracket (for insulated/ circular ducts)
UG-COVER	Waterproof housing (for mounting outdoors, in cold attics etc.)
VR-0.6M	Venturi pipe (length 0,6 m)
VR-1.5M	Venturi pipe (length 1,5 m)
VR-2.8M	Venturi pipe (length 2,8 m) C/W TET 26-35 Gasket

UG-3 Smoke detector housing for duct installation
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INSTALLATION

The venturi pipe is made of aluminium and can easily be shortened to suit the diameter of the duct. Hole diameter is 38 mm. For insulated or circular ducts - use the mounting bracket, hole diameter is then 51 mm.

AIR FLOW MONITORING

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

FUNCTION TEST

When installation is complete, the detector should be tested. This can be carried out with smoke or suitable testspray, using the test hole on cover. Do not forget to refit the plastic plug after test.

NB: When installing outdoors or in cold attics etc., where there is a risk for condensation, the detector should be insulated from the surrounding air with e.g. weatherproof housing UG-COVER.

VENTURI EFFECT

The new cross-section (shape) of the venturi pipe gives an optimum of venturi effect. The slots alongside the venturi pipe, for the inlet and the outlet of the venturi air stream, gives maximum air flow and makes the venturi pipe self-adjusting with a stable and uniform flow from the whole cross section of the ventilation duct.

WIRING DIAGRAM

The numbering by the terminal blocks on the printed circuit board in the Uniguard Superflow corresponds to the connectors on the embedded smoke detector base.

Terminal block in Uniguard Superlow

1
2
3
4
5
6

Connectors in smoke detector base