

TECHNICAL SPECIFICATIONS	
MATERIAL	ABS / Aluminum
WEIGHT: HOUSING	708 g
WEIGHT: VENTURI PIPE	0.6 m - 377 g / 1,5 m - 950 g / 2,8 m - 1760 g
DIMENSIONS: HOUSING	180 (W) x 235 (H) x 183 (D)
DIMENSIONS: VENTURI PIPE	23 (W) x x 35 (D)
ORDER CODE	DESCRIPTION
DUCT HOUSING	DUCT SMOKE SAMPLING SYSTEM
VR-0.6M	Venturi pipe 0.6 meter for UG-4
VR-1.5M	Venturi pipe 1.5 meter for UG-4
VR-2.8M	Venturi pipe 2.8 meter for UG-4

GLOBAL FIRE EQUIPMENT S.A.

Sítio dos Barrabés, Armazém Nave Y, Caixa Postal 908-Z, 8150-016 São Brás de Alportel - PORTUGAL Tel: +351 289 896 560 • Sales: sales@globalfire.pt • Technical Support: techs@globalfire.pt • www.globalfire.pt

UG-4

Duct Smoke Sampling System

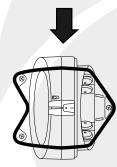
UG-4 duct housing is a simple and effective solution to monitor smoke presence in ventilation ducts or other HVAC conducts.

Based in Venturi effect, air sampling it's naturally aspirated because of aerodynamic shape of sampling tube. The venturi tube conducts the air from the duct to the detector housing, which is fitted to the outside of the duct, where a smoke detector detects potential fire particles in the air.

UG-4 should be installed according to air flow direction in the duct but it can be installed on any side of the duct.

We recommend that the UG-4 is mounted at an equal distance from heating, cooling or humidity devices. A distance of 3 times the duct diameter should be left before a damper, filter or change of the duct direction and 5 times the diameter after these devices to assure the presence of laminar flow.

Note: the foot's shape of an arrow, which shall be installed in the

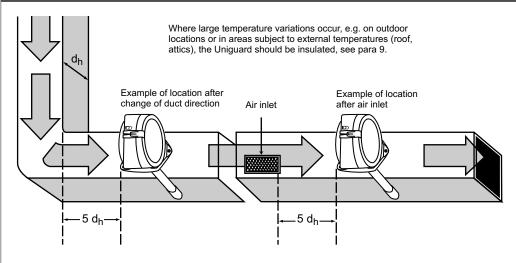


Examples of installation sources of interferance:

Fan, damper, silencer, battery, air handling unit, duct bend, duct branching, duct narrowing or expansion.









Without UG-bracket, ø38 mm.

Drill a hole in the duct:



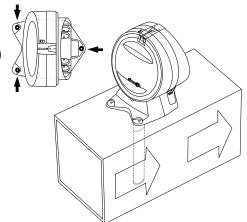
- Lockind
- Mount the pipe and the detector on the duct.
- Secure the bottom of the Uniquard with the 3 screws, positions marked.

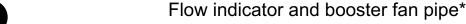
NOTE - IMPORTANT!

The air flow direction arrows (see the Unigard foot's shape or on the housing top) must have the same direction as the air flow in the duct.



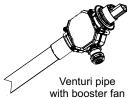
- · Measure the diameter of the duct.
- Shorten the pipe, if necessary.
- The pipe should penetrate approx 90% of the width of the duct. NOTE! See para 8.
- Insert the end plug
- · Mount the black gasket on the pipe.
- Insert the pipe into the bottom of the Uniquard.
- Secure the pipe with the locking screw.









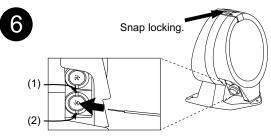


The Uniquard is supplied with an indicator. a red plastic "tongue", which - when the detector is correctly installed – is bent outwards due to the airflow.

NOTE!

If the indicator does not move, you should consider a new mounting positioning of the Uniquard or install a booster fan venturi pipe.

* A booster fan pipe is a standard venturi pipe including a booster fan, which needs separate 24 AC supply.



Electrical installation

- Remove the back cover by opening the snap locking.
- Enter the cable through one of the cable

When using another type of cable entry dismount the ones already installed by first pressing one side through the hole and then the other one (1-2).

· Connect the cables.



Test of detector

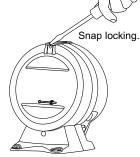
Max diameter of the duct 0,6 m.

Shorten the pipe, if necessary.

Use the venturi pipe 0.6 m.

Check the detector with smoke detector tester RDP-300.

- · Move the "test hole plug" to the side and briefly release a spray of aerosol.
- IMPORTANT! Reassemble the "test hole plug".

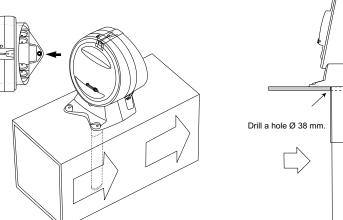


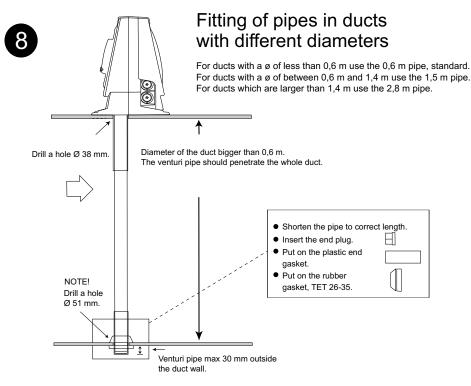
How to open the front cover

The front cover opens as follows, when e.g. replacing smoke detector.

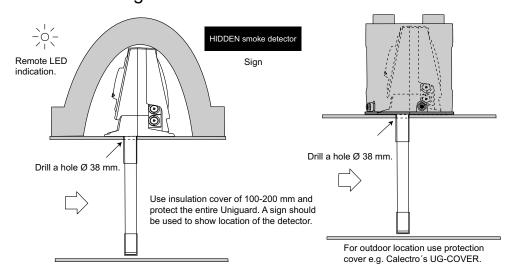
 Remove the cover by opening the snap locking with e.g. a screwdriver and turn the cover, which has bayonet fitting, counterclockwise.

Do not drill any holes in the cover for signs etc. Holes will cause air leakages and seriously disturbe the function of the detector.

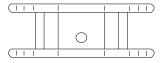




Mounting in places where possible condensation problems could arise, e.g. cold attics or outdoor







UG-beslaget levereras plant.
The UG-bracket is supplied flat.

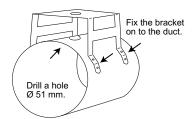


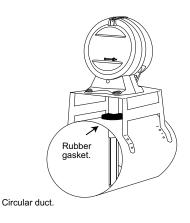
UG-beslaget är lätt att böja/forma så att det passar runda eller plana kanaler.

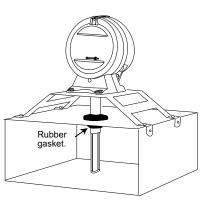
The UG-bracket can easily be bent or shaped to fit circular or rectangular duct.

UG-bracket for circular or insulated rectangular ducts

Using the UG-bracket the diameter of the duct can be as small as 100 mm.







Insulated rectangular duct.

FINAL CHECKS

- Check that the air flow direction arrows have the same direction as the air flow in the duct.
- Check that the plastic plug of the test hole is properly mounted.
- Check that the flow indicator oscillates ensuring proper air flow through the detector.
- It is recommended that smoke from a smoke generator is introduced into the duct to check the function of the detector.

Trouble shooting

The smoke detector indicates alarm without smoke.

• Smoke detector is faulty, contaminated with dirt or condensation. See para 9. The detector needs to be replaced.