

Gas Sampler Argon

The objective is to suck a gas from double glazing units across the sensor face .

The sensor has a 1mm opening and is 6 mm deep to the membrane. It is important nothing except gas touches the membrane.

The Blue section B screws into the case and has a tube B connecting it to the Argon source. The length and diameter of the thread are not important as the case is 3.5mm thick. The nut should be chromed.

Tube A is connected to a pump which sucks gas down tube B and across the sensor face. The gap between tube B and the Blue section is not important but should be less than the cross sectional area of tube B. This is to prevent a vacuum forming on the face of the sensor. The amount of material above Tube A is governed by the thickness of the internal tubing approximately 2-2.5mm

Tube B must also stop at least 1mm short of the membrane. Ie it must not protrude out of the end of section B

The O rings are to make a seal so that gas can not escape up the sides of the sensor.

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