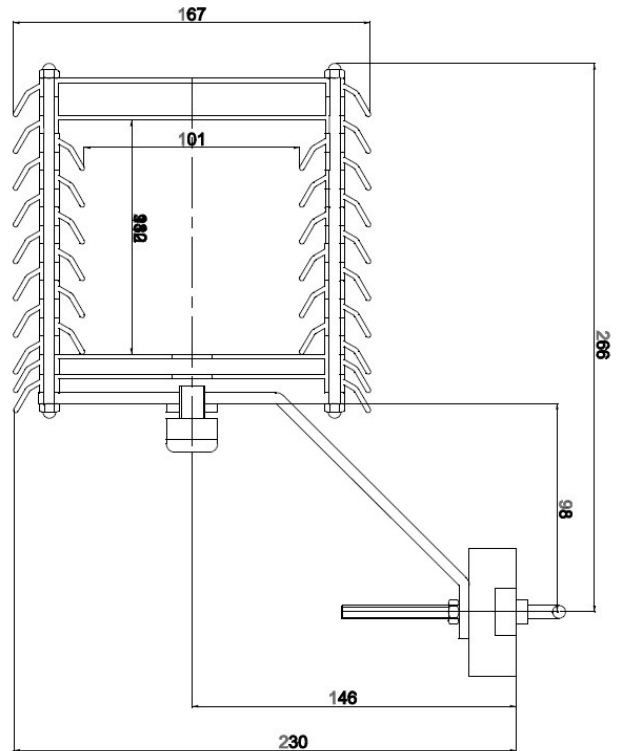




OMC-422-2 with OMC-408 probe mounted on a pole



OMC-422 dimensions

## Datasheet

# OMC-422-2 Multi Plate Anti Radiation Shield

Introducing the new range of radiation shields, designed to house temperature and humidity probes and to protect them from the heating effects of solar radiation and direct exposure to rain and snow.

The design of the shield has a white outer reflective surface, combined with an inner barrier of non-reflective, black louvres. This prevents sunlight and reflected radiation reaching the sensor, whilst still allowing air to flow across the sensor.

This design is based on the Stevenson Screen, which is now established as an industry standard and sold to national meteorological services worldwide.

### Features

- Accuracy comparable to Stevenson Screens
- Less sensitive to rainfall
- Improved protection against wind blown precipitation
- Secure sensor installation with stable mounting

### Mechanism

- Durable UV stable plastic
- No power required

Double-louvered, natural vented anti-radiation shield, suitable for mast mounting (25..51 mm). Louvres are made in RTP 2099X134682 polycarbonate/PBT alloy, which is permanently static dissipative. The surface resistance of this material is specified to be less than 1E9 Ohm, in accordance with EN IEC 60079-0 section 7.4.2, and therefore suitable for application in Ex zone 1 or 2 (make sure your sensor is also EX type, if located in such an environment).



OMC-422-2 with OMC-408 probe mounted on a pole

## Specifications

- Double-louvered high impact thermoplastic
- White external layer, with U.V. stabiliser for long-term
- Weather resistance
- Extra black internal layer
- Aluminum arm with durable white powder coating
- A4 grade (316), stainless steel 'V' bolt, and securing
- Nuts to fit a pole of between 25-51 mm diameter
- Black acetal plastic locating clamp

## Accuracy

In conditions of high solar radiation and wind speeds less than 1 m/s the readings were compared with an aspirated shield.

RAD 02 large version: +0.5 °C

These errors are less than half those recorded from other similar shields on the market and the performance is comparable to the Stevenson screens, although the time constant of our new shields is shorter.

## Probe compatibility

*RAD 01:*

Houses probes from 5-12 mm in diameter with up to 120 mm of the probe inside the shield.

*RAD 02:*

Houses larger probes 14-25 mm in diameter taking up.

## Dimensions and weight

*RAD 02:*

- 165 diameter x 274 mm height (shield only)
- 405 mm including bracket
- Weight 1.34 kg

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Since 1924 Observator has evolved to be a trend-setting developer and supplier in a wide variety of industries. From instruments for meteorological and hydrological solutions, air and climate technology, to high precision mechanical production, window wipers and sunscreens for shipping and inland applications.

Solutions beyond expectations

Originating from the Netherlands, Observator has grown into an internationally oriented company with a worldwide distribution network and offices in Australia, Germany, the Netherlands, Singapore and the United Kingdom.

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