

## Meteobot® Radiation Shield – Datasheet

The Meteobot® radiation shield is designed to provide effective housing for various air and gas sensors, which have to be installed in the open.

The plates are made from UV-resistant polypropylene. Each plate has two parts.

The upper part is white and reflects the sunlight, so that the surface is not heated more than the ambient air itself. There are anti-aging additives in the plastic, so that its colour (and respectively – its reflectance) remains the same over the years.

The lower part is black and ensures that virtually no infrared radiation passes through to heat up the sensitive element inside. This design helps avoid falsely higher temperature readings (as is the case with white-only radiation shields).

Another benefit of the Meteobot® radiation shield is that it provides for much more sensitive readings when the temperature changes. This is because the construction is well-ventilated and the polypropylene material itself quickly warms up or cools down during temperature fluctuations. This is a considerable advantage over traditional wooden radiation shields, which are “temperature-inert” and can typically lead to 1 - 1.5°C of “temperature lag”.

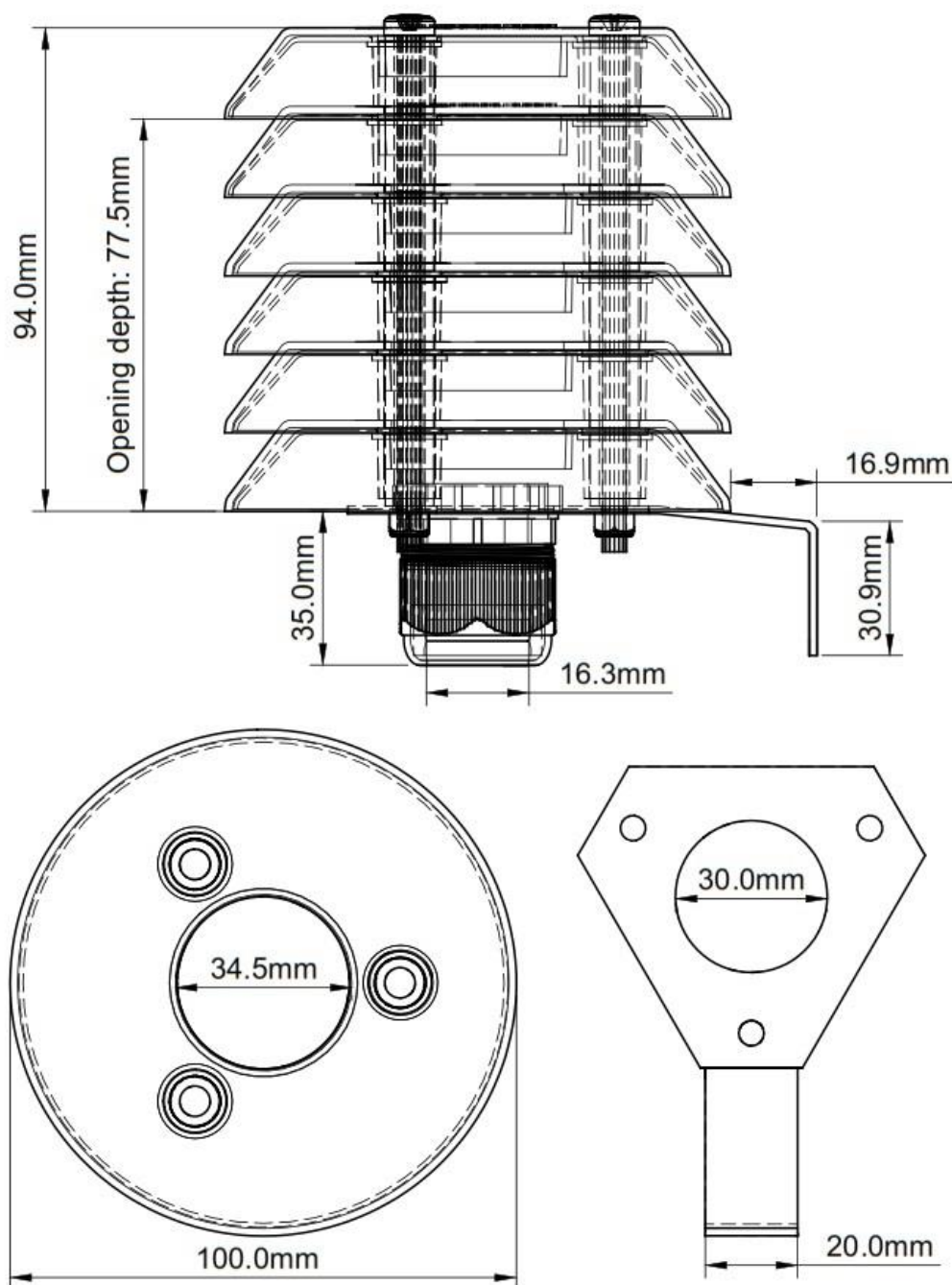


### Specifications

Max. sensor length	up to 77 mm
Max. sensor diameter	up to 16.3 mm
Dimensions	Height: 94 mm; diameter: 100 mm
Mounting	Stainless steel plate and hose bracket 40-50 mm diameter (included)
Weight	0.295 kg (net)

### Package

Size	Weight (gross)	HS Code
19 x 13 x 12.5 cm	0.370 kg	90158020



Dept.	Technical reference	Created by <b>Meteobot</b>	22/06/2023	Approved by
		Document type		Document status
		Title <b>Radiation shield</b>		DWG No.
		Rev. <b>1.0</b>	Date of issue	Sheet <b>1/1</b>