

# Radiation Shield

## HD9007... - 12 or 16 RINGS RADIATION SHIELD

### INTRODUCTION

The **HD9007 Multiplate Radiation Shield** is a high-performance passive shielding system designed to protect temperature and temperature/humidity sensors from direct solar radiation, rain, and wind. It ensures accurate environmental measurements in meteorological, climatological, and environmental monitoring applications.

Engineered with a series of specially shaped plates, the shield promotes effective air circulation around the sensor while blocking unwanted external influences. This design minimizes measurement errors caused by thermal radiation and precipitation.

### FEATURES

#### UV-resistant, antistatic thermoplastic material

Offers durability and long-term stability even in harsh outdoor environments. The material has low thermal conductivity and high reflectivity, reducing heat absorption from solar radiation.

#### White powder-painted anticorodal aluminium support bracket

Ensures robust mechanical support and resistance to corrosion.

#### Stainless steel U-bolt mounting system

Compatible with poles or masts ranging from 30 to 50 mm in diameter, ensuring flexible installation options in field conditions.

#### Optimized multiplate design

Enhances natural ventilation to maintain measurement accuracy for temperature and relative humidity sensors.

### Applications

- Meteorological and climatological stations
- Agricultural weather monitoring systems
- Industrial outdoor sensor deployments
- Environmental research and air quality monitoring

### General specifications

Number of rings	HD9007A-1: 12-ring HD9007A-2: 16-ring
External dimension	125 mm diam.
Height (excluding bracket)	HD9007A-1: 175 mm HD9007A-2: 227 mm
Weight	HD9007A-1: ca. 640 g HD9007A-2: ca. 760 g
Material	Discs: ASA Bracket: anodized aluminium
Probes suitable diameter	26 mm 14 mm



#### OPTIMIZED SOLAR PROTECTION

Minimizes radiation impact for accurate sensor readings.



#### ALL-WEATHER RELIABILITY

Performs in sun, rain, and wind with durable materials.



#### ROBUST AND FLEXIBLE MOUNTING

Secure fit on masts from 30 to 50 mm.

