

Weather and Radiation Protection Shields

Ventilated weather shield RS-series

The new RS ventilated shield has been developed in close cooperation with the Swiss National Meteorological Service. It is a highly advanced product, designed to minimise the influence of thermal radiation on humidity and temperature measurements, whilst maximising protection from the very worst weather conditions, including horizontally driving wind and rain. The performance of the RS shield in combination with the latest ROTRONIC meteorological probes is such that in comparative tests, measurement performance was practically identical to reference chilled mirror condensation hygrometers which are used by many National Meteorological Organisations. The fan is supplied by a separate cable.

The new shield provides an enormous increase in precision compared to the existing shields.

All ROTRONIC Meteorology probes can be used in conjunction with the new shield.



Key features

- Easy-to-install protection shield with built-in ventilator
- Special white paint minimises solar gain
- Easy probe mounting
- 12 VDC or 24 VDC supply for fan and probe

Operating range:	-30...60 °C
Material:	Aluminium, POM
Colour:	White, RAL 9010
Fan supply:	approx. 2 W
Aspiration rate:	3.5 m/s / 900 l/min
Dimensions:	see drawing on page 78
Fan:	Papst fan IP54
Lifetime of fan:	70,000 hours @40 °C, 35,000 hours @70 °C

Order code:

RS12T	Weather shield with 12 VDC ventilator
RS24T	Weather shield with 24 VDC ventilator

See diagrams page 78

Mounting kits for RS weather protection shield

Order code:	Probe used / Adaptor	Cable connection
MKRS-1-15	HygroClip S3	Terminals/Cable glands
MKRS-2-15	HygroClip with HygroFlex-connector	Terminals/Tuchel 7-pin connector
MKRS-3-25	MP100/MP400 w. Tuchel 7-pin connector	Terminals/Cable glands
MKRS-4-25	MP100/MP400 w. Tuchel 4-pin connector	Terminals/Cable glands
MKRS-5-25	MP100H /MP400H	Terminals/Cable glands

Weather and radiation protection shield with natural ventilation

The naturally ventilated shield is recommended for applications where the accuracy is less important.

- It offers fairly good protection against radiation and precipitation.
- Suitable for humidity and temperature probes series MP100A, MP400A, MP100H, MP400H
- Protects against horizontally driving wind and rain up to 68 km/h.
- Includes probe protection tube

Order code:

AC1002-AC1012
AC1003-AC1012
AC1015
AC1004

Accessories:

ET-234
ET-230

Suitable for:

For MP100A series (12 plates)
For MP400A, MP100H, MP400H (16 plates)
For HygroClip S/S3 probes; in conjunction with AC1002-AC1012
Used for HygroClip S3C03 probes (9 plates)

Mating connector Tuchel 7 pin female
Mating connector Tuchel 4 pin female

