

### temperature & humidity sensors M-serie radiation screen model 511-10

The Rotronic combined temperature and relative humidity sensor model M1, measuring range 0..100 %RH and -30..70 °C complete with IP-65 housing, is an ideal sensor for the measuring of outdoor climate conditions.

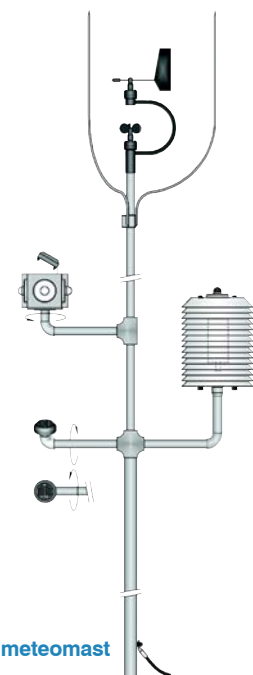
The probe has to be protected against direct sunlight but the ventilation also has to be optimal. To create these conditions the probe is placed in radiation screen model 511-10, which is developed under license of the KNMI (Royal Dutch Meteorological Institute). This radiation screen provides excellent ventilation; the white outside and black inside of the screen helps to protect the sensor against radiation.

The radiation screen is placed on a meteorological mast with at least one side arm, like our model SM-TEE or SM-KRU. When mounting at outer wall is required, the stainless steel bracket 506.60 is recommended.

The radiation screen, depending on the sensor type used, can be delivered with more or less dishes. In combination with model M1 13 (fixed probe) dishes are needed, for model M2 with interchangeable probe HygroClip S 14 dishes are needed.



made to measure



meteomast

#### technical specifications

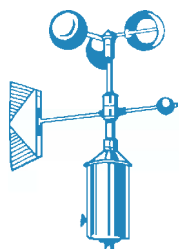
##### Rotronic M-serie RH+T sensor with fixed or interchangeable probe

measuring element	%RH	Rotronic Hygromer AC-1
	°C	Pt-100 1/3 DIN B
measuring range		0..100 %RH en -30..+70 °C
accuracy %RH		+/-1,5%
accuracy °C		+/- 0,3K
output		0..1/5/10 V; 4..20mA = 0..100 %RV and -30..+70 °C other ranges possible
supply		10..35VDC / 12..24VAC 2-wired 4..20 mA, 10..35 VDC
housing		IP-65
weight		ca. 300 gr.
dimensions		housing M2, M1 154x73x48 fixed probe M1 ø 15, length 57 Hygroclip S ø 15, length 100.6

##### 511-10

material bodemplate		delrin black
material dishes		glasfiber reinforced polycarb.
preservation dishes		outside shiny white inside matt black
mounting material		stainless steel 304
dimensions with fixed probe		diameter 370 x 250 mm
dimensions with interchangeable probe		diameter 395 x 250 mm

**Interchangeable Hygroclip-S:**  
simple and low-cost maintenance,  
calibration every year without loss of time.



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