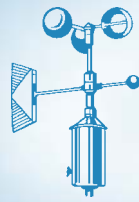


OPTIONS AND ACCESSORIES



wittich & visser

scientific & meteorological instruments

WindSonic

WindSonic is a low cost ultrasonic alternative to conventional cup/vane/propellor wind sensors in a single unit. Providing accurate results in all weather conditions also where traditional mechanical sensors fail, WindSonic exhibits a number of very distinct advantages:

- consistent performance throughout life (no accuracy degradation due to wear of moving parts)
- corrosion free, UV resistant material
- low starting speed (0.01 m/s, 0.09 knots)
- maintenance free
- no calibration required
- robust construction
- software configurable
- status code output
- true 0°-360° operation (no dead band on direction output)
- wind speed and direction from a single unit.



meteo M&R

high quality and affordable weather sensors

for
weather stations
wind monitoring
greenhouse automation
agricultural applications
HVAC
building automation

8LT5 or 8LA5

The 8LT5 is a lux transmitter with current or voltage output proportional to illumination (lux). The 8LA5 is a lux alarm unit with an adjustable switch-over contact with time delays for switching on/off. Both converters are connected to the LS lux sensor.



VM9

A high quality, universal instrumental amplifier and signal converter to 0..10 V or 4..20 mA, for pulse signals, resistance or mV and μ V signals.

The housing of the VM9 is of IP-67 Makrolon which enables mounting in industrial or corrosive environments.



8..A-L alarm control units

8WA-L: Wind speed alarm system with switch over contacts where an alarm control unit is combined with the WindSonic ultrasonic anemometer or the PAH cup anemometer.

8WR-L: Wind direction alarm with the PRR-1 (one sector on, one off), PRR-2 (2 sectors on, two off), PRF windvane or WindSonic.

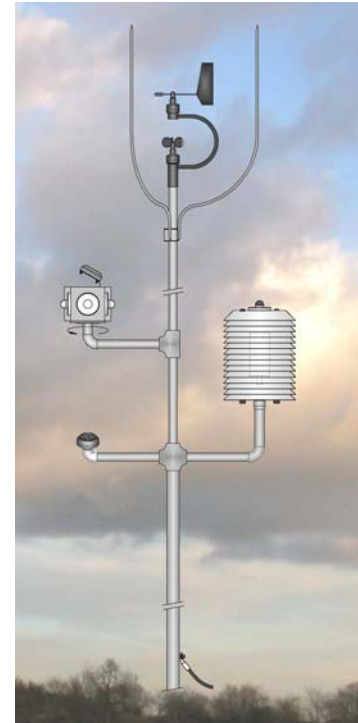
8LA-L: Sun blinds control with the module and LS lux sensors (0..5000 up to 0..100.000 Lux). Two LS sensors can be connected to one module.

8PA-L: Precipitation alarm system: one module combined with a tipping bucket rain gauge ARG100 or Davis.



4P(W) or 2P

Surge arrestor device 4P(W) or 2P is used to protect installations against power surges as for instance caused by lightning. With 30V or more the gas discharge tubes will break the circuit, link the load to the earthbolt and in most cases recover themselves. Model 4P has its own housing, model 2P is only available in a junction box (max. 20 in 1 box)



wind speed
wind direction
humidity
temperature
precipitation
lux

signal converters
alarm
monitoring

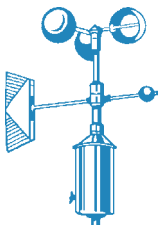
screens
brackets
masts
lightning protection
surge arrestor

made to measure

wittich & visser

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wind direction

PRV

Light weight, long life potentiometer vane. Mechanical angle 360° without stop. Electrical angle 350°±3°. The starting speed is between 1.2 and 1.5 m/s. An affordable high quality wind vane with oil bronze bearings and stainless steel mounting hardware.



wind speed

PAH

Light weight anemometer based on Hall-effect principle. Measuring range 0..60 m/s with a starting speed of 0.75 m/s. Two pulses per rotation and 107 pulses at 30 m/s. An affordable high quality cup anemometer with ceramic magnets and stainless steel bearings and mounting hardware.



illumination

mounting cube

Cube for mounting 4 lux sensors, thus enabling direction dependent light control. For sun blinds control or solar energy measurements for heating control.



precipitation detector

RSA

Rain or snowfall detector with direct switch contact output, alarm on/off delay time and switch sensitivity. The resistance variation of the gold plated electrodes is sensed and the surface temperature is maintained 10°C above ambient. With the IP65 housing and the reliability of the electrodes proper operation is guaranteed for many years.



wind display

805

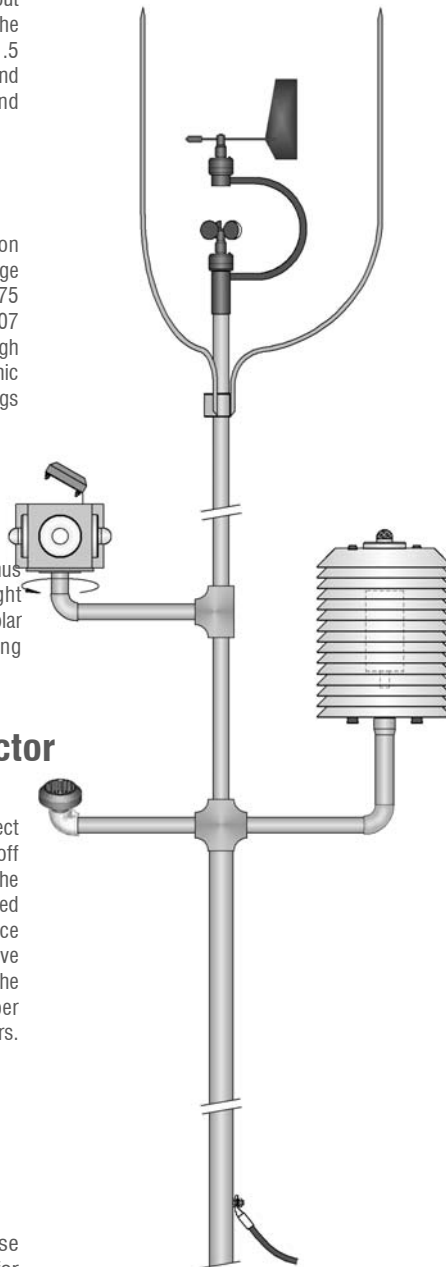
Wind speed 0..30 m/s, wind rose 36 LEDs with analogue outputs for wind speed and wind direction (0..10V). Standard for PAH, PRV. Also available for Gill WindSonic.



demountable masts

SM

Stainless steel, 4 meter, available with one or more side arms.



lightning conductor

SM-AFL

Stainless steel, to be connected to the buildings lightning protection system using an earth cable.



solar radiation

GS

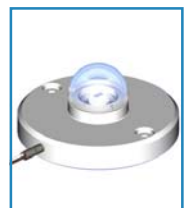
Solar radiation sensor responsive to the full solar spectrum, 300..2800 nm. With internal signal amplifier and maintenance free watertight housing. This affordable sensor is ideal for industrial, agricultural and HVAC applications.



illumination

LS

Sensor for indoor and outdoor light intensity measurements. The sensor uses a silicon photovoltaic cell and is sensitive for wavelengths between 400 and 1100 nm.



temperature & humidity

Rotronic M1-series

The Rotronic combined temperature and relative humidity sensor, model M1 with IP65 housing is an ideal instrument for outdoor climate conditions. The measuring range is 0..100% and -30°C.. 70°C with selectable outputs (e.g. 0..10 V, 4..20 mA). The instrument is used in combination with the radiation screen 511.10.



radiation screen

KNMI type

Radiation screen model 511-10 is developed under license of the KNMI (Royal Dutch Meteorological Institute). The dishes are outside shiny white and inside matt black.



radiation screen

RM-Young type

Natural ventilated screen, open for wind, closed for radiation. Can be used with meteorological sensors like Rotronic HygroClip or MP-series.

