



The innovative system with the excellent cost/performance ratio

- Wind
- Temperature and humidity
- Radiation and brightness
- Precipitation volume
- Precipitation beginning and end
- Integrated sensors

WEATHER DATA *COMPACT*

For more than 70 years we have been developing, manufacturing and supplying practical systems and instruments worldwide to evaluate and analyse weather data. In addition to our extensive general program, we have now developed the "COMPACT" product line. This line includes both the entire product range of sensors to measure weather data and the appropriate accessories.

This innovative series is predestined for all qualified applications in the sector of measurement – control – regulation. It provides universal and reliable technology in an ideal cost/performance ratio.

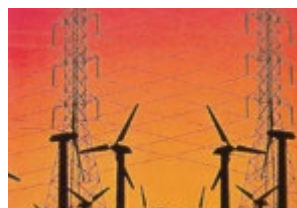
The data outputs are standardized and are thus compatible with nearly all available systems in use.

The "COMPACT" sensors are used to measure wind, air temperature and humidity, radiation, brightness, amount of precipitation and occurrence of precipitation (beginning and end).

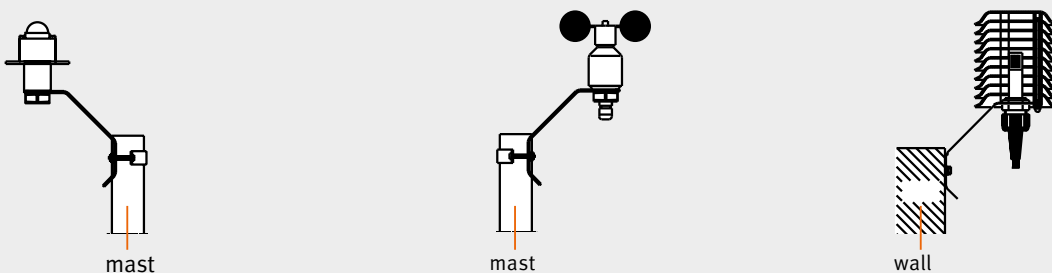
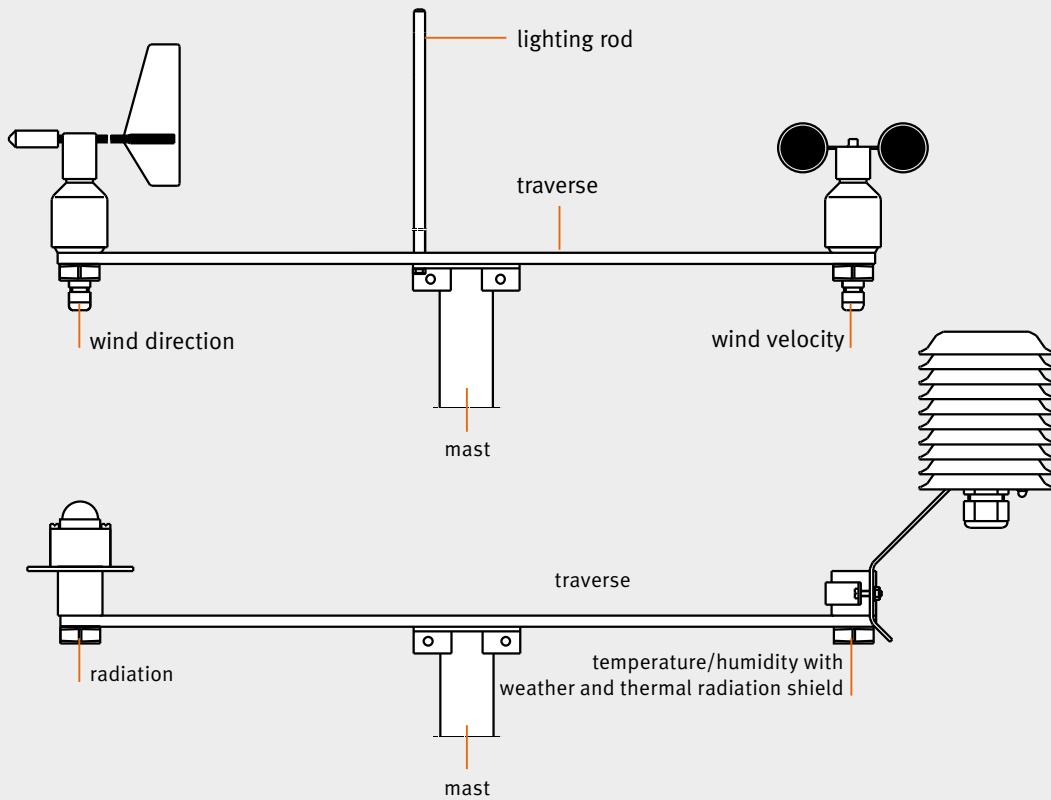
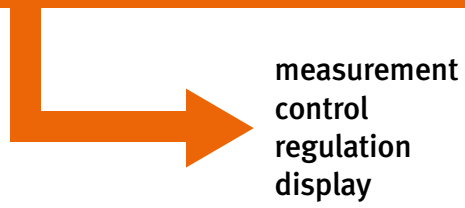
For example in:

- building control technology
- environmental protection
- industry
- household technology
- wind-power systems
- Venetian blind regulation
- roll shutter regulation
- air-conditioning regulation
- energy supply
- mining
- disaster control
- fire departments

Ask for detailed information tailored to your individual plans and requirements.



EXCERPT FROM OUR PRODUCT PORTFOLIO *COMPACT* AND CONSTRUCTION EXAMPLES FOR MOUNTING TO MASTS AND WALLS:



WEATHER DATA COMPACT

TECHNICAL DATA

Wind



The wind transmitter of the "COMPACT" series detects wind speed and wind direction. An integrated electronically regulated heater guarantees smooth winter operation.

Meas. range:	0 ... 50 m/s 0 ... 360°
Output:	Analog signal

Precipitation volume



The precipitation transmitter detects precipitation and emits an electrical contact pulse when a volume of 0.1 mm precipitation is reached. There is an electronically-regulated heater for winter operation.

Output:	Impulse Analog signal
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Temperature and humidity



The thermo-transmitter or the combined hygrothermo-transmitter measures the ambient temperature and the relative humidity. A weather and thermal radiation shield is required to protect the transmitter from the influence of weather and radiation as both of these could lead to erroneous measurements.

Meas. range:	-30 ... +70 °C 0 ... 100% rel. F.
Output:	analog signal MODBUS RTU protocol

Precipitation beginning and end



Two sensors detect the beginning and the end of precipitation events. The area sensor detects all the moist precipitation striking the surface, the optical sensor detects all precipitation entering through a light barrier.

Meas. value:	the beginning and the end of precipitation
Output:	relay contact

Radiation and brightness



The radiation transmitter measures the energy of solar radiation.

Meas. range:	0 ... 100 000 Lux 0 ... 10 000 Lux 0 ... 5 000 Lux
Output:	0 ... 10 V

The brightness transmitter measures the brightness of the surroundings.

Meas. range:	0 ... 1 300 W/m ²
Output:	analog signal MODBUS RTU protocol

Integrated sensors



Compact Weather Stations with integrated sensors for measuring:

- Wind velocity
- Wind direction
- Precipitation
- Brightness
- Temperature
- Relative humidity
- Air pressure

Output:	serial RS485 ASCII / MODBUS RTU, analog signal
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Accessories

Diverse accessories are available, such as:

- Connection box with integrated overvoltage protection and power supply.
- Holder and masts for local sensor mounting.
- Cable assemblies and mounting aids.

Please contact us for your system requirements. We advise you gladly.



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