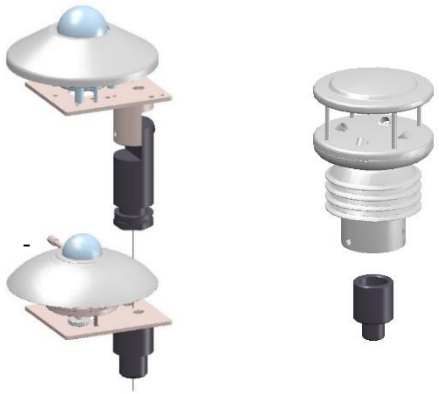

Meteo

Meteorological data such as solar irradiance, ambient temperature, module surface temperature and wind parameters are monitored according to IEC 61853 standard.

Sensors key features:

MADE IN GERMANY

- **temperature sensor**
  1x self-adhesive for surface mount
  PT1000 4-wire (precision according to DIN EN 60751DIN Kl. B -50 ... +500°C +/- 0,3°C at 0°C)
- **Pyranometer horizontal plane**
  pyranometer secondary standard Kipp&Zonen SMP10-V incl. 10 meters connection cable
- **Pyranometer module plane**
  pyranometer secondary standard Kipp&Zonen SMP10-V incl. 10 meters connection cable, for module plane mounting (0...90° adjustable)
- **Compact all-in-one weather sensor**
  Lufft WS600, ventilated/heated radiation protection for measuring ambient temperature, relative humidity, precipitation intensity, precipitation type, precipitation quantity, air pressure, wind direction and wind speed

Mounting key features

- **telescopic mast**
  4 m telescopic mast for mounting of meteorological measuring instruments, incl. field mounting device on concrete base (custom scope)
- **3x mounting sets**
  for pyranometers and compact weather sensor

DAQ key features

- **Variants**
  - Professional meteo station SM – GI180519
    - Fibre optic single mode, Ethernet, RS485
    - Splicebox – 4x SC/SC
    - Switch – 4TX/2FX SC/SC
    - Com.bloxx Comserver DAQ-module
    - Z.bloxx 407 measuring module
    - IP66 outdoor enclosure
  - Professional meteo station MM – GI180545
    - Fibre optic multimode, Ethernet, RS485
    - Splicebox – 4x SC/SC
    - Switch – 4TX/2FX SC/SC
    - Com.bloxx Comserver DAQ-module
    - Z.bloxx 407 measuring module
    - IP66 outdoor enclosure
  - Professional meteo station essential – GI180546
    - RS485
    - Z.bloxx 407 measuring module
    - IP66 outdoor enclosure

Meteostation.professional

Temperature Sensor	
Sensor type	4-wire Pt1000
Measuring range	-50°C to +150°C
Precision	According to DIN EN 60751 Cl. B
Ingress protection	IP 67
Pyranometer	
Spectral range	285 to 2800 nm
Serial output	RS485 Modbus
Serial output range	-400 to 4000W/m²
Supply voltage	5 to 30 VDC
Operating temperature range	-40°C to +80°C
Ingress protection	IP 67
Compact weather sensor	
Parameters measured	Temperature, relative humidity, precipitation intensity – type and quantity, air pressure, wind direction and speed
Communication	RS485 Modbus (8n1)
Temperature range/ precision	-50°C to +60°C | +/- 0.2°C
Humidity range/ precision	0 to 100% rel. humidity | +/- 2%
Air pressure range/ precision	300 to 1200hPa | +/- 0.5hPa
Wind speed range/ precision	0 to 75m/s | +/- 0.3m/s
Wind direction range/ precision	0 to 359.9° | < 3°
Precipitation range/ precision	0.3 to 5mm (drop size – rain and snow), 0 to 200mm/h (intensity)
Operating Temperature	-50°C to +60°C
Supply voltage	24VDC
Ingress protection	IP 66
Mounting system	
Type	Telescopic mast (4m) on tilting device/ base
Tilting device material/ weight	Steel galvanized | 60kg
Telescopic mast material/ weight	Aluminum (AlMgSi1) | 15kg
Sensor mounting sets	Pyranometer (H), Pyranometer (V), Compact weather sensor
Mount	Bolt mount on foundation (customer scope)
DAQ/ Measurement	
Measuring device	z.bloxx 407
Inputs	2 inputs for RTD – 4-wire Pt100/1000 sensors 2 Digital inputs 1 counter (S0, up to 1kHz)
Professional meteo station SM and MM – GI180519, GI180545	
Enclosure	Outdoor IP66 - H: 847mm W: 636mm D: 300mm
Cable glands	12x M25 cable glands
Connectivity	Fiber optics, Ethernet or RS485 Modbus RTU
Power supply	230VAC/24VDC (150W)
Professional meteo station essential – GI180546	
Enclosure	Outdoor IP66 – H: 341mm W: 291mm D: 128mm
Cable glands	2x M25, 4x M20 cable glands
Connectivity	RS485: Modbus RTU
Power supply	Via COM-cable 24VDC

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