

RES05 Solar MiniMeteo weather station with GPRS, 2 m temperature, moisture, leaf wetness, wind and rain sensor

The **MiniMeteo weather station** is vitally important for recording weather data in agriculture.

Using several sensors such as for air temperature, relative humidity, leaf wetness, precipitation, and dry and wet temperatures, measurements can be precisely collected by the **RES05 data logger** and transmitted to the cloud, where they can then be retrieved with an app or web application for graphical display or scab evaluation. The frost warning can either be sent via SMS and an alarm call to a smart phone (weather station with GPRS version) or with the help of the app in which an alarm value can be set not only for the wet temperature, but also for all other measurements. The weather station is powered via an integrated, hermetically sealed lead-acid rechargeable battery with a capacity of 12 Ah. It is charged via a photovoltaic module.

Technical details:

- Station and base unit made from hot-dip galvanised steel
- Switch cabinet: plastic 430 x 330 x 200 mm
- Probe for air temperature and relative humidity with ribbed protector 2 m tall
- Rain sensor: with a resolution of 0.1 mm
- Wet leaf sensor measurement range: 0 – 100% moisture
- Cup anemometer: 0 – 40 m/s at a height of 3 m
- Photovoltaic module: 20 W
- Data transmission: with integrated GPRS module (SIM card required) or with a LoRa module (also requires a TTN gateway within range of the station)
- Web application: MeteoWeb
- Optional: SmartMeteo app
- Power supply: hermetically sealed lead-acid rechargeable battery 12 V 12 Ah
- Serial connection for BFS40-S soil moisture probe
- Dimensions: h 3 m, base unit: 60 cm

Art. 44-44-0423



RES05 Solar MiniMeteo weather station with GPRS, wet, dry temperature and refill system

The MiniMeteo weather station is used in agriculture as a frost warning system and for weather surveillance.

Different sensors record parameters such as dry temperature, wet temperature and wind. The measured data are captured and evaluated by the RES05 data logger. The parameters and frost warning can be queried remotely by smart phone. If, in the event of frost, the wet temperature falls below the set alarm threshold, the weather station automatically sends an SMS and at the same time makes a call to the registered number.

The data is retrieved via smart phone, which can be used both for programming the alarm thresholds and also for querying the data. With the app or web application, the data can also be displayed graphically over various time intervals. The power supply for the weather station is via an integrated, hermetically sealed lead-acid rechargeable battery with a capacity of 12 Ah. It is charged via a photovoltaic module.

Technical details:

- Station and base unit made from hot-dip galvanised steel
- Switch cabinet: plastic 430 x 330 x 200 mm
- 2 temperature sensors: PT100, class AA
- Water filling system made of stainless steel for the wet temperature
- Photovoltaic module: 20 W
- Data transmission: with integrated GPRS module (SIM card required) or with a LoRa module (also requires a TTN gateway within range of the station)
- Web application: MeteoWeb
- Optional: SmartMeteo app
- Power supply: hermetically sealed lead-acid rechargeable battery 12 V 12 Ah
- Serial connection for BFS40-S soil moisture probe
- Dimensions: h 3 m, base unit: 60 cm

Art. 44-44-0424



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MINIMETEO
WEATHER STATION
RES05

Art. 36-36-0407

RES05 Solar MiniMeteo weather station with GPRS, wet, dry temperature, wind and refill system

The **MiniMeteo weather station** is used in agriculture as a frost warning system and for weather surveillance. Different sensors record parameters such as dry temperature, wet temperature and wind.

The measured data are captured and evaluated by the **RES05 data logger**. The parameters and frost warning can be queried remotely by smart phone. If, in the event of frost, the wet temperature falls below the set alarm threshold, the weather station automatically sends an SMS and at the same time makes a call to the registered number.

The data is retrieved via smart phone, which can be used both for programming the alarm thresholds and also for querying the data. With the app or web application, the data can also be displayed graphically over various time intervals. The power supply for the weather station is via an integrated, hermetically sealed lead-acid rechargeable battery with a capacity of 12 Ah. It is charged via a photovoltaic module.

Technical details:

- Station and base unit made from hot-dip galvanised steel
- Switch cabinet: plastic 430 x 330 x 200 mm
- 2 temperature sensors: PT100, class AA
- Water filling system made of stainless steel for the wet temperature
- Cup anemometer: 0 – 40 m/s
- Photovoltaic module: 20 W
- Data transmission: with integrated GPRS module (SIM card required) or with a LoRa module (also requires a TTN gateway within range of the station)
- Web application: MeteoWeb
- Optional: SmartMeteo app
- Power supply: hermetically sealed lead-acid rechargeable battery 12 V 12 Ah
- Serial connection for BFS40-S soil moisture probe
- Dimensions: h 3 m, base unit: 60 cm

Art. 44-44-0420



RES05 Solar MiniMeteo weather station with GPRS, wet, dry temperature, 2 m temperature, moisture, leaf wetness, wind, rain and refill system

The **MiniMeteo weather station** is used in agriculture as a frost warning system and for weather surveillance.

Using several sensors such as for air temperature, relative humidity, leaf wetness, precipitation, and dry and wet temperatures, measurements can be precisely collected by the **RES05 data logger** and transmitted to the cloud, where they can then be retrieved with an app or web application for graphical display or scab evaluation. The frost warning can either be sent via SMS and an alarm call to a smart phone (weather station with GPRS version) or with the help of the app in which an alarm value can be set not only for the wet temperature, but also for all other measurements. The weather station is powered via an integrated, hermetically sealed lead-acid rechargeable battery with a capacity of 12 Ah. It is charged via a photovoltaic module.

Technical details:

- Station and base unit made from hot-dip galvanised steel
- Switch cabinet: plastic 430 x 330 x 200 mm
- Probe for air temperature and relative humidity with ribbed protector 2 m tall
- 2 sensors for wet and dry temperatures: PT100, class AA
- Water filling system made of stainless steel for the wet temperature
- Rain sensor: with a resolution of 0.1 mm
- Wet leaf sensor measurement range: 0 – 100% moisture
- Cup anemometer: 0 – 40 m/s at a height of 3 m
- Photovoltaic module: 20 W
- Data transmission: with integrated GPRS module (SIM card required) or with a LoRa module (also requires a TTN gateway within range of the station)
- Web application: MeteoWeb
- Optional: SmartMeteo app
- Power supply: hermetically sealed lead-acid rechargeable battery 12 V 12 Ah
- Serial connection for BFS40-S soil moisture probe
- Dimensions: h 3 m, base unit: 60 cm

Art. 44-44-0421



RES05 Solar MiniMeteo weather station with GPRS, wet, dry temperature, 2 m temperature, moisture, leaf wetness, wind, wind direction, rain and refill system

The **MiniMeteo weather station** is used in agriculture as a frost warning system and for weather surveillance.

Using several sensors such as for air temperature, relative humidity, leaf wetness, precipitation, and dry and wet temperatures, measurements can be precisely collected by the **RES05 data logger** and transmitted to the cloud, where they can then be retrieved with an app or web application for graphical display or scab evaluation. The frost warning can either be sent via SMS and an alarm call to a smart phone (weather station with GPRS version) or with the help of the app in which an alarm value can be set not only for the wet temperature, but also for all other measurements. The weather station is powered via an integrated, hermetically sealed lead-acid rechargeable battery with a capacity of 12 Ah. It is charged via a photovoltaic module.

Technical details:

- Station and base unit made from hot-dip galvanised steel
- Switch cabinet: plastic 430 x 330 x 200 mm
- Probe for air temperature and relative humidity with ribbed protector 2 m tall
- 2 sensors for wet and dry temperatures: PT100, class AA
- Water filling system made of stainless steel for the wet temperature
- Rain sensor: with a resolution of 0.1 mm
- Wet leaf sensor measurement range: 0 – 100% moisture
- Cup anemometer: 0 – 40 m/s at a height of 3 m
- Wind direction sensor 0-360° (precision ± 2.5°)
- Photovoltaic module: 20 W
- Data transmission: with integrated GPRS module (SIM card required) or with a LoRa module (also requires a TTN gateway within range of the station)
- Web application: MeteoWeb
- Optional: SmartMeteo app
- Power supply: hermetically sealed lead-acid rechargeable battery 12 V 12 Ah
- Serial connection for BFS40-S soil moisture probe
- Dimensions: h 3 m, base unit: 60 cm

Art. 44-44-0422

