



**elsner**<sup>®</sup>  
elektronik

# MODBUS

Sensors for Building Technology and Plant Engineering

# WEATHER STATIONS P03/3-MODBUS



The weather stations provide weather data for Modbus systems. The sensors of the compact devices use state-of-the-art technology: The electronic WIND SENSORS work silently and reliably, even in hail, snow and sub-zero temperatures. Air turbulence and rising winds in the area of the device are also detected.

The BRIGHTNESS SENSORS detect not only sunshine but also twilight. Filters simulate the sensitivity spectrum of the human eye.

The measuring surfaces of the PRECIPITATION SENSORS are heated, so that moisture dries out immediately. On the one hand, this prevents false alarms caused by fog or dew. On the other hand, the sensor quickly detects when it has stopped raining or snowing.

A GPS RECEIVER not only provides the local time for the calendar and weekly timer worldwide, the data is also the basis for sun position dependent shading control.



- Temperature sensor (-40...+80°C)
- 3 Brightness sensors (east, south, west, 0...99 000 lx)
- Electronic wind speed sensor
- Precipitation sensor with 1.2 Watt heating
- Modbus communication RTU
- Surface mount housing IP 44, white/translucent
- Dimensions approx. 96 x 77 x 118 (w x h x d, mm)
- Operating voltage: 24 V DC  $\pm$ 10%

## **P03/3-MODBUS-GPS** No. 30147

- GPS receiver for international time signal UTC and position
- Calculation of sun position (azimuth/elevation)

## **P03/3-MODBUS** No. 30146

- Without time signal

# ACCESSORIES FOR MOUNTING WEATHER STATIONS

## Arms and brackets for P03/3-Modbus weather stations



Mounting arm Flex S  
No. 30119



Mounting arm Flex S+  
No. 30120



Mounting arm Flex L  
No. 30115



Mounting arm Flex L+  
No. 30116



Mounting arm L  
No. 30112

### Mounting Arms Flex with ball joint

- For wall mounting
- RAL 9003 powder-coated
- High quality, fixable ball joints
- Flex S: 1 ball joint, total length approx. 64 mm
- Flex S+: 2 ball joints, total length approx. 116 mm
- Flex L: 1 ball joints, total length approx. 215 mm
- Flex L+: 2 ball joints, total length approx. 267 mm

### Mounting Arm L

- For wall mounting
- RAL 9003 powder-coated
- Total length approx. 163 mm (no joints)



Mounting arm Fix  
No. 30127 (Weiß)  
No. 30128 (Alu blank)



Pole mount Fix P  
No. 30129



Hinge arm large  
No. 30109 (white)  
No. 30111 (alu blank)

### Mounting Arm Fix

- Available RAL 9003 powder-coated or aluminium blank
- Total length approx. 425 mm

### Pole Mount Fix P

- RAL 9003 powder-coated
- Dimensions approx. 55 x 58 x 30 (w x h x d, mm)

### Hinge Arm large

- For wall, pole or beam mounting
- Available RAL 9016 powder-coated or aluminium blank
- 1 hinge, total length approx. 420 mm



## TEMPERATURE/HUMIDITY SENSOR



Due to its rugged housing and protection class, the thermo-hygrometer is suitable for outdoor use, but can also be used indoors, for example in production facilities.



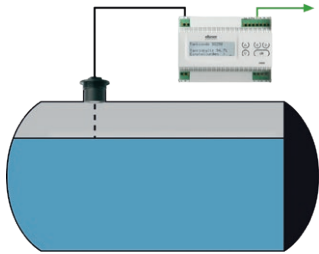
### **TH-AP MODBUS** No. 30170

- Temperature sensor (-40...+80°C)
- Humidity sensor (0% rF ... 100% RH)
- Calculation of dewpoint temperature
- For indoor and outdoor use

- Modbus communication RTU
- Surface mount housing IP 65, grey
- Dimensions approx. 65 x 93 x 38 (w x h x d, mm)
- Operating voltage: 24 V DC ±10%

# TANK SENSOR

The tank probe records the distance by ultrasound and can calculate tank contents. In addition to the Modbus data output, it has output relays, a current and a voltage interface.



## **S0250-UI Modbus** No. 70152

- Measurement of the fill level of tanks with calculation of the content or of distances (12...250 cm)
- Modbus communication RTU
- 2 additional output relays
- Voltage interface 0...10 V
- Current interface 0...20 mA
- Evaluation unit with display & keypad to show fill level /distance and set tank geometry/measurement cycle

- Modular device 7 width units, white, dimensions approx. 123 x 89 x 61 (w x h x d, mm)
- Operating voltage: 230 V AC
- Ultrasonic measuring sensor, black, Ø approx. 60 mm, height approx. 45 mm, thread 1½ inches
- Suitable for water and heating oil
- 10 m connection cable

# LEACKAGE SENSOR available from quarter II/21

The Leak Modbus leak sensor consists of an evaluation unit and probe. If there is water between the electrodes of the probe, an alarm tone can be emitted at the evaluation unit. In addition, the alarm is output to Modbus.



## **Leak Modbus** Set No. 30183

### **Evaluation Unit**

- Alarm sound during water alarm and follow-up time
- Modbus communication RTU
- Modbus output for alarm signal
- Surface mount housing IP 20, app. 80 × 82 × 51 (mm)
- Operating voltage: 24 V DC ±10%

### **Probe**

- Detection of water
- Diameter approx. 77 mm, line length approx. 140 cm (plus cable grip and plug)
- BNC plug for connection to the evaluation unit

# INDOOR SENSORS SEWI MODBUS



The interior sensors detect the room climate and thus create the basis for automatic control by the Modbus master. With the aid of the dew point calculation, the formation of condensation on building and plant components can be foreseen and countermeasures taken.



- For indoor use
- Modbus communication RTU
- Surface mount housing IP 30
- Diameter approx. 105 mm, height 32 mm
- Operating voltage: 24 V DC  $\pm$ 10%



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Special Mention

## SEWI AQS/TH MODBUS No. 30174

- CO<sub>2</sub> sensor (0...2000 ppm)
- Temperature sensor (0...+50°C)
- Humidity sensor (0...100% RH)
- Calculation of dewpoint temperature

## SEWI TH MODBUS No. 30175

- Temperature sensor (-40...+80°C)
- Humidity sensor (0...100% RH)
- Calculation of dewpoint temperature



# TEMPERATURE OPERATING UNIT eTR 101 MODBUS

With the switch-sized eTR 101 Modbus, the user sets the desired target temperature individually. Large symbols provide easy and intuitive access to building technology. The integrated sensor invisibly records the room temperature.



## eTR 101 MODBUS

No. 30180 (signal white RAL 9003)

No. 30181 (jet black RAL 9005)

- Touch buttons for setting the target temperature
- Temperature sensor

- For indoor use
- Modbus communication RTU
- Mounting on surface or on a switch socket
- Dimensions approx. 81.5 mm x 81.5 mm
- Operating voltage: 24 V DC  $\pm 10\%$



## eTR SURFACE MOUNT HOUSING

Nr. 30190 (signal white RAL 9003)

- Housing for surface-mounting of eTR 101 Modbus
- Provided cable openings: one at top/bottom, two at right/left

- Dimensions approx. 78.5 x 78.5 (W x H, mm).  
Mounting depth approx. 19 mm. Total depth including eTR device approx. 27.5 mm



**elsner**<sup>®</sup>  
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