

## Precipitation Transmitter

Instrument serves as sensor for quantity and intensity of precipitation, for the analogue transmission of measuring values.

The precipitation is conducted into the tipping bucket via the collecting area and funnel. On achieving the maximum volume capacity the bucket tips over. Each tipping event is acquired contact-free, is linearized, and output for further processing.

Analogue output:

The following output functions are selectable:

1.) The analogue output is available as accumulated value in proportion to the precipitation pulses. Here, the analogue value is reset automatically to zero mm precipitation in case of measuring value exceeding, or through an external pulse.

2.) The analogue output can deliver the data as gliding accumulated value over a selectable time (10 / 60 min., 6 / 24 h).

Pulse output:

The precipitation pulse is available in parallel to the analogue output via an optocoupler

## Specification

**Part number: 5.4033.36.0xx**

### Precipitation

|                 |                     |
|-----------------|---------------------|
| Collecting area | 200 cm <sup>2</sup> |
| Resolution      | 0.1 mm              |
| Meas. principle | tipping bucket      |
| Intensity       | max. 11 mm / min    |

### Data output digital

|             |        |
|-------------|--------|
| Output type | pulses |
|-------------|--------|

### Data output analog

|             |                            |
|-------------|----------------------------|
| Meas. range | 10 / 20 / 25 / 50 mm prec. |
|-------------|----------------------------|

### Operating voltage

|            |                 |
|------------|-----------------|
| Electronic | 5 ... 24 V DC   |
| Heating    | without heating |

### General

|                  |                     |
|------------------|---------------------|
| Mounting         | on mast tube Ø 1,5" |
| Dimension        | Ø 186 x 445 mm      |
| Weight           | 3.3 kg              |
| Material housing | stainless steel     |

## Versions

As per 5.4033.36.0xx, but:

**Product number 5.4033.36.040**

**Data output analog**

Type 0 ... 20 mA  
Stromausgang max. 500 €

**Product number 5.4033.36.041**

**Data output analog**

Type 4 ... 20 mA  
Stromausgang max. 500 €

**Product number 5.4033.36.061**

**Data output analog**


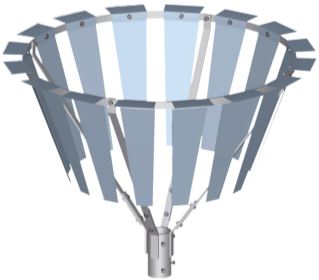
Type 0 ... 10 V

**Product number 5.4033.36.073**

**Data output analog**

Type 0 ... 5 V

## Accessories

| Product   | Product name                             | Brief description  |
|---|--|--|
|  | Device to Refuse Birds<br>5.4010.00.010  | Protection against bird drop-pings for the collecting funnels of the Ombrometer (5.4032.35.007 / 008; 5.4033.35 / 36 ...).<br>Refuses birds on the edge of the collecting funnel.<br><br><b>General</b><br>Mounting Clamping diameter Ø 186 mm<br>Material stainless steel<br>Dimension Ø 360 x 100 mm<br>Weight 0.32 kg |
|  | Wind Protection Element<br>5.4032.00.000 | Serves as optional accessory for uninterrupted acquisition even in case of wind.<br><br><b>Material</b><br>Frame stell, zinc plated<br>Laminations stainless steel<br><br><b>General</b><br>Height 800 mm<br>Diameter 1000 mm<br>Weight 18 kg<br>Mounting Ø 48 mm  |



Power Supply Unit  
9.3388.00.000

Provides power, for Ombrometer and Precipitation Transmitter.

- primary:
- 230 V AC
- secondary:
- 26 V AC / 3.46 A
  - 24 V AC / 0.5 A
  - 12 V DC / 0.3 A

**Operating voltage**

|           |  |
|-----------|--|
| Primary   | 230 V AC / 50 ... 60 Hz                                |
| Secondary | 26 V AC / 3.46 A<br>24 V AC / 0.5 A<br>12 V DC / 0.3 A |

**General**

|                  |                    |
|------------------|--------------------|
| Protection       | IP 65              |
| Dimension        | 125 x 125 x 125 mm |
| Weight           | 2.7 kg             |
| Matirial housing | Synthetic          |



Power supply Unit  
9.3389.10.000

For the power supply of wind speed transmitters, wind direction transmitters or combined instruments.

- primary:
- 230 V AC
- secondary:
- 2 x 24 V AC / 27.5 W
  - 1 x 24 V AC / 75 W
  - 1 x 24 V AC / 5 W
  - 1 x 24 V DC / 2 W

**Operating voltage**

|           |  |
|-----------|--|
| Primary   | 230 V AC / 50 Hz / 0.63A   |
| Secondary | 2 x 24 V AC / 27.5 W<br>1 x 24 V AC / 75 W<br>1 x 24 V AC / 5 W<br>1 x 24 V DC / 2 W |

**Electrical connection**

|                  |                            |
|------------------|----------------------------|
| Series terminals | 20                         |
| Cable gland      | 5 x M16x1.5<br>2 x M20x1.5 |

**General**

|            |                    |
|------------|--------------------|
| Housing    | plastic            |
| Protection | IP 65              |
| Dimension  | 300 x 230 x 132 mm |
| Weight     | approx. 4.2 kg     |



Power supply  
Unit  
9.3389.10.010

For the power supply of wind speed transmitters, wind direction transmitters or combined instruments.

- primary:
- 115 V AC
- secondary:
- 2 x 24 V AC / 27.5 W
  - 1 x 24 V AC / 75 W
  - 1 x 24 V AC / 5 W
  - 1 x 24 V DC / 2 W

**Operating voltage**

|           |  |
|-----------|--|
| Primary   | 115 V AC / 50 ... 60 Hz / 1.3A   |
| Secondary | 2 x 24 V AC / 27.5 W<br>1 x 24 V AC / 75 W<br>1 x 24 V AC / 5 W<br>1 x 24 V DC / 2 W |

**Electrical connection**

|                  |                              |
|------------------|------------------------------|
| Series terminals | 20                           |
| Cable gland      | 5 x M16 x1.5<br>2 x M20 x1.5 |

**General**

|            |                    |
|------------|--------------------|
| Housing    | plastic            |
| Protection | IP 65              |
| Dimension  | 300 x 230 x 132 mm |
| Weight     | approx. 4.2 kg     |



Stand  
9.4031.35.xxx

Used to mount the preceding Ombrometer, resp. Precipitation Transmitter. The collecting area can be elevated to a height of 1; 1.2 or 1.5 m.

**General**

|                   |                    |
|-------------------|--------------------|
| Material          | steel, zinc plated |
| Tube diameter     | Ø 48.3 mm          |
| Mounting distance | 450 mm             |



Stand  
9.4031.36.xxx

Used to mount the preceding Ombrometer, resp. Precipitation Transmitter. The collecting area can be elevated to a height of 1; 1.2 or 1.5 m. Material is stainless steel

**General**

|                   |                 |
|-------------------|-----------------|
| Material          | stainless steel |
| Tube diameter     | Ø 48.3 mm       |
| Mounting distance | 450 mm          |

