

## 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: 5.4033.35.0xx**

### 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
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### Data output analog

Meas. range	10 / 20 / 25 / 50 mm prec.
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### Operating voltage

Electronic	5 ... 24 V DC
Heating	24 V AC/DC, 48.5 W

### 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 5.4033.35.0xx, but:

**Product number 5.4033.35.040**

**Data output analog**

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

**Product number 5.4033.35.041**

**Data output analog**

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

**Product number 5.4033.35.061**

**Data output analog**


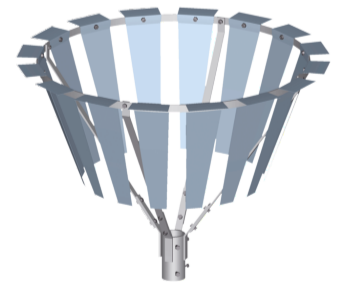
Type 0 ... 10 V

**Product number 5.4033.35.073**

**Data output analog**

Type 0 ... 5 V

## Accessories

Product	Product name	Brief description
	Device to Refuse Birds 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 ...). Refuses birds on the edge of the collecting funnel.  <b>General</b> Mounting Clamping diameter Ø 186 mm Material stainless steel Dimension Ø 360 x 100 mm Weight 0.32 kg
	Wind Protection Element 5.4032.00.000	Serves as optional accessory for uninterrupted acquisition even in case of wind.  <b>Material</b> Frame stell, zinc plated Laminations stainless steel <b>General</b> Height 800 mm Diameter 1000 mm Weight 18 kg 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 24 V AC / 0.5 A 12 V DC / 0.3 A

**General**

Protection	IP 65
Dimension	125 x 125 x 125 mm
Weight	2.7 kg
Material 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 1 x 24 V AC / 75 W 1 x 24 V AC / 5 W 1 x 24 V DC / 2 W

**Electrical connection**

Series terminals	20
Cable gland	5 x M16x1.5 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 1 x 24 V AC / 75 W 1 x 24 V AC / 5 W 1 x 24 V DC / 2 W

**Electrical connection**

Series terminals	20
Cable gland	5 x M16 x1.5 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

