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 contract-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 cm²
Resolution	0.1 mm
Meas. principle	tipping buccket
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

Housing material	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 ê

Product number 5.4033.36.041

Data output analog

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

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 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. **General** 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. **Material** Frame: stell, zinc plated Laminations: stainless steel **General** 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

secundary:

• 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
Secundary	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
Housing material	Synthetic

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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
secundary:
• 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
Secundary	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

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	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 secundary: • 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 Secundary: 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

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