

PRECIPITATION

Precipitation Transmitter

Part number: 5.4033.35.0xx

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 ²
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	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. General <table border="1"> <tr> <td>Mounting</td> <td>Clamping diameter Ø 186 mm</td> </tr> <tr> <td>Material</td> <td>stainless steel</td> </tr> <tr> <td>Dimension</td> <td>Ø 360 x 100 mm</td> </tr> <tr> <td>Weight</td> <td>0.32 kg</td> </tr> </table>	Mounting	Clamping diameter Ø 186 mm	Material	stainless steel	Dimension	Ø 360 x 100 mm	Weight	0.32 kg				
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	Wind Protection Element 5.4032.00.000	Serves as optional accessory for uninterrupted acquisition even in case of wind. Material <table border="1"> <tr> <td>Frame</td> <td>stell, zinc plated</td> </tr> <tr> <td>Laminations</td> <td>stainless steel</td> </tr> </table> General <table border="1"> <tr> <td>Height</td> <td>800 mm</td> </tr> <tr> <td>Diameter</td> <td>1000 mm</td> </tr> <tr> <td>Weight</td> <td>18 kg</td> </tr> <tr> <td>Fixing boring</td> <td>Ø 48 mm</td> </tr> </table>	Frame	stell, zinc plated	Laminations	stainless steel	Height	800 mm	Diameter	1000 mm	Weight	18 kg	Fixing boring	Ø 48 mm
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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
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 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

