

PRECIPITATION MEASURING TECHNOLOGY

Precipitation Transmitter

Part number: 5.4032.35.00x

The measuring principle is in accordance to the “Guide to Meteorological Instruments No 8” of the WMO. 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.



Specification

Part number: 5.4032.35.00x

Precipitation

Measuring range	max. 11 mm / min
Collecting area	200 cm ²
Resolution	0.1 mm
Meas. principle	tipping bucket
Accuracy	± 3%

Data output digital

Output type	pulses
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Operating voltage

Electronic	5 ... 24 V DC
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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 5.4032.35.00x, but:

Product number 5.4032.35.007

Operating voltage

Electronic	5 ... 24 V DC
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General

Ambient temp.	0 ... +60 °C
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Model	without heating
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Product number 5.4032.35.008

Operating voltage

Electronic	5 ... 24 V DC
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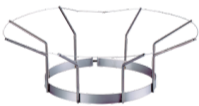
Heating	24 V AC/DC, max. 50W
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General

Ambient temp.	-25 ... +60 °C
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Model	with heating
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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
- 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