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PRECIPITATION

Precipitation Transmitter

Part number: 5.4041.x1.00x

The device combines cutting-edge weighing technology in a very small space with a self-emptying collection vessel. The system provides excellent resolution and high precision.

Even minute drops will be measured.

The weighing precipitation transmitter is suited for use in meteorological and hydrological monitoring networks as well as applications in the area of environmental monitoring.

Modbus RTU-interface facilitates installation of the sensor and its integration into networks. The device is WMO-compliant and is equipped with interfaces which are compatible with sensors with tipping bucket balances and other weighing systems. Other features are the compact, robust design, a very low weight, stainless steel housing, weather resistance and longevity. High connectivity is ensured by multiple interfaces as well as easy installation and maintenance.

Scope of application:

- Meteorology
- Climatology
- Hydrology
- Industry
- Environmental monitoring

Specification

Part number: 5.4041.x1.00x

1 art mamber: 3.4041.X1.00X			
Precipitation			
Collecting area	200 cm ²		
Resolution	0.001mm (pulse output: 0.01mm)		
Meas. principle	Weighing with automatic self-emptying function		
Intensity	0 20mm/min or 0 1200mm/h		
Accuracy with quantity meas.	0.1mm or 1% (quantity < 6 mm/min) 2% (quantity > 6 mm/min)		
Precipitation types	Liquid (item without heating: solid, mixed)		
Data output digital			
Output type	Pulses		
Operating voltage			
Electronic	9 32 V DC		
Heating	24V DC, 140 W (item with heating)		
General			
Ambient temp.	0 +70°C (item without heating) -40 +70°C (item with heating)		
Mounting	At mast tube Ø 60mm		
Protection	IP 67		
Dimension	292mm x 190mm (H x D)		
Weight	Approx. 2.7 kg		



Matinat nousing	inless steel
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Versions

As per 5.4041.x1.00x, but:

Product number 5.4041.01.000

110ddc 11dmbc1 5.4041.0100			
Data output digital			
Interface	RS485 - ASCII		
General			
Heating	With heating at funnel, outlet and collection vessel		
Ambient temp.	-40 +70 °C		
Product number 5.4041.01.001			
Data output digital			
Interface	RS485 - MODBUS RTU		
General			
Heating	With heating at funnel, outlet and collection vessel		
Ambient temp.	-40 +70 °C		
Product number 5.4041.11.000			
Data output digital			
Interface	RS485 - ASCII		
General			
Heating	Without		
Ambient temp.	0 +70 °C		
Product number 5.4041.11.001			
Data output digital			
Interface	RS485 - MODBUS RTU		
General			
Heating	Without		
Ambient temp.	0 +70 °C		

Accessories

Product	Product name	Brief description
	Signalling cable 214165	CABLE, assembled M12 1.5 Meters POL: 8



		CABLE, assembled M12 10 Meters POL: 8		
	Heating cable 214167	CABLE, assembled M12 1 Meter	s POL: 4	
	Heating cable 214168	CABLE, assembled M12 10 Mete	ers POL: 4	
E	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	
ā	Tube extension and adaption 510217	The pipe extension / adaptation is required to achieve the collection height of 1m with the stand and to adapt the different diameters.		
	Stand, height 0.65 m 9.4031.35.065	Model with • Stand height 0.65 m (Collecting height 1.0 m)		
9		General		
		Height	0,65 m	
		Collection height	1 m	
		Weight	6.5 kg	

