All-weather, high accuracy rain gauge for continuous data collection

- **Parameters measured**
  Cumulative precipitation, precipitation intensity, bucket content in real time and non real time

- **Measurement technology**
  Weighing principle

- **Product Highlights**
  All-weather precipitation gauge without moving parts according to WMO guide line No. 8

- **Interface**
  SDI-12 / RS-485, pulse

The OTT Pluvio² is an all-weather precipitation gauge that uses superior weight-based technology to measure the amount and intensity of rain, snow, and hail. Developed in conjunction with industry-leading meteorological services, the OTT Pluvio² employs a high-precision load cell and algorithms that compensate for wind, temperature, and evaporation, ensuring the highest accuracy precipitation measurements over time.

Types of precipitation	liquid, solid, and mixed
Collecting area	200 cm² and 400 cm²
Collection volume	1500 mm/m² and 750 mm/m²

Measuring range 200 cm²

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Intensity RT / measuring interval 1 minute	12.00 ... 1800.00 mm/h, 0.20 ... 30 mm/min
Amount RT/NRT, amount NRT, amount total NRT	0.10 ... 500.00 mm
Bucket content, RT and NRT	20.00 ... 1600.00 mm

Measuring range 400 cm²	
Intensity RT / measuring interval 1 minute	6.00 ...1800.00 mm/h, 0.10 ... 30 mm/min
Amount RT/NRT, amount NRT, amount total NRT	0.10 ... 500.00 mm
Bucket content, RT and NRT	20.00 ... 850.00 mm

Accuracy (at - 25 ...+45 °C)	
Amount, absolute (60 minutes collection time)	± 0.05 mm
Intensity	± 0.1 mm/min or ± 6 mm/h

Resolution	
Impulse output	0.1 mm
SDI-12 and RS-485	0.01 mm/min, 0.01 mm/min or mm/h

Times	
Intensity output interval	1 minute
Output delay	RT 20 seconds; NRT 5 minutes
Query interval	6 seconds .... 60 minutes

Interfaces	
USB	configuration/service mode and firmware update
Serial interfaces	SDI-12 or RS 485
Digital outputs	impulse 0.1 mm (configurable) and status (0 ... 120 impulses/min; configurable 5 or 2Hz)
Measurement output	intensity RT; amount RT/NRT, amount NRT, amount total NRT, bucket content RT and NRT; temperature of load cell, status Pluvio², status heating (if present)

Electrical and mechanical data	
Sensor element	sealed load cell
Power supply	10 ... 28 VDC
Power/current consumption	typ. 12 mA at 12 V
Ring heating, optional	Pluvio² 200: 24 VDC / 50 Watt Pluvio² 400: 24 VDC / 100 Watt

Dimensions (Ø x h)	
OTT Pluvio² 200 / 400	450 mm x 740 mm / 450 mm x 660 mm
Pedestal	(Ø) 110-120 mm (4 ')

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Weight	**(bucket empty) 15 kg**

Material for base plate / bucket / pipe housing	**stainless steel, aluminium / polyethylene / ASA, UV- resistant**

Environmental conditions	
Temperature, in operation	-40 ... +60 °C
Temperature, storage	-50 ... +70 °C
Relative humidity	0 ... 100% (non-condensed)

Protection	
Housing	IP54, resistant to salt fog
Load cell / electronics	IP67 / IP64

EMC	**EN 61000-4-2/4/5/6, Level 5 (4 kV) EM/EMI EN 61000-4-3, CE conformity**
RT = real- time; NRT = non real-time ; units can be configured in mm or in (inch) and °C or °F	

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