

## Technical data

### Recordable precipitation

Liquid, solid, and mixed

### Collecting area

200 cm<sup>2</sup>

### Recordable precipitation amount

400 mm (approx. 8 l)

### Measurement method

Weighing measurement method

### Sensor element

Sealed load cell

### Measuring ranges

- Precipitation: 0 ... 3000 mm/h
- Cumulative precipitation threshold at 60 min. collection time: 0.03 mm
- Precipitation intensity threshold: 0.1 mm/min or 6 mm/h

### Accuracy

- Amount: ±0.1 mm or ±1% of measured value
- Intensity: ±0.1 mm/min, ±6 mm/h or ±1 % of measured value

### Resolution

- SDI-12 and RS-485 interface:  
Amount: 0.001 mm  
Intensity: 0.001 mm/min or 0.01 mm/h
- Impulse output: 0.05/0.1/0.2 mm, adjustable  
(remaining amounts in 1/100 mm will be factored in during the collecting time of 60 minutes)

### Intensity output interval

1 minute

### Query interval

1 minute ... 60 min

### Output delay

- Real-time: < 1 min
- Non real-time (filtered values): 5 min

### Measurement output

Intensity \*RT, amount RT/\*NRT, amount NRT, amount total NRT, bucket content RT and NRT, temperature of load cell

### Status output

Pluvio<sup>2</sup> S status, heating status (if present)

### Interfaces

- SDI-12 V1.3
- RS-485 (2- or 4-wire)  
SDI-12 protocol and command line mode (ASCII)
- Digital outputs (2/5 Hz):  
impulse 0.05/0.1/0.2 mm (adjustable)  
status 0 ... 120 impulses/min
- USB (2.0) for service mode  
(no overvoltage protection)

### Power supply

5.5 ... 28 V DC, typically 12 VDC  
secured against reverse polarity

### Current consumption (without heating)

Typically 9,2 mA at 12 VDC

### Power consumption (without heating)

≤ 110 mW

### Ring heating, optional

- 12 ... 28 VDC, typically 12/24 VDC, secured against reverse polarity
- Max. 2.2 A
- Max. 50 W at 24 VDC  
temperature control range 45 K  
(wind speed 0 m/s)
- Max. 12.5 W at 12 VDC  
temperature control range 12 K  
(wind speed 0 m/s)

### Target temperature for orifice ring rim

+2 ... +9 °C, factory setting +4 °C

### Operating range of orifice rim heater

-40 ... +60 °C (ambient temperature)

### Modes of operation of orifice rim heater

Heater control system:

- Disabled
- Continuously enabled
- Continuously enabled within a specified temperature range
- US NWS standard, time-controlled
- Enabled in case of precipitation  
(adjustable after-run time)

### Dimensions

Pluvio<sup>2</sup> S: 288 mm x 651 mm (Ø x h)

Pedestal: Ø 2" / 50 ... 60 mm

### Weight

approx. 7.8 kg

### Material

- Base plate: stainless steel/aluminium
- Collecting bucket: Polyethylene
- Bucket support: ASA, UV resistant
- Pipe housing ASA, UV resistant

### Environmental conditions

- Temperature, in operation: -40 ... +60 °C
- Temperature, storage: -40 ... +70 °C
- Relative humidity: 0 ... 100 % rF, non-condensing

### Protection

- Pipe housing closed: IP65
- Pipe housing open: IP63
- Load cell: IP68

### Standards

- EMC: 2004/108/EG;  
EN 61326-1:2013
- Salt resistance: EN 60068-2-11

\*RT = real-time; NRT = non real-time; units can be configured in mm or in (inch), mm/min or mm/h, in/min or in/h and °C or °F