

Technical Data

Sensor Technology

Rain, snow, sleet, freezing rain, hail; No precipitation (SYNOP 4677)

Measurement surface

9 cm²

Droplet size

0.3...5.0 mm

DSD

11 drop size classes with bandwidth of 0.5 mm

Precipitation intensity

0.01...200 mm/h

Particle velocity

0.9...15.5 m/s

Solid precipitation

5.1...~30 mm

Accuracy

±0.16 mm or ±10 % of the measured value for liquid precipitation*

Resolution liquid precipitation

0.01 / 0.1 / 0.2 / 0.5 / 1.0 mm (pulse interface)

Interfaces/ protocols

RS-485 semi-duplex two-wire, SDI-12, pulse interface / UMB protocol, Modbus

(Pluggable) cable length

10 m

Power supply

10...28 VDC

Power consumption without heating

1 VA / 0.4 VA (low power mode)

Heating power

9 VA

Operat. temp. range

-40...60 °C

Operat. humidity range

0...100 %

Protection class

IP66

Survival wind speed

75 m/s

Dimensions

Ø150 mm, height: 190 mm

Weight

~0.6 kg

Accessories

UMB interface converter ISOCON-UMB

Power supply 24V/4A

Surge protection

Surge protection

Connection cable, 20m)

* Under laboratory conditions by means of Lufft test system: Reference drop simulator with 2.8 mm drop diameter and adjustable intensity between 10 and 200 mm/h.