云滴分析仪

The Cloud Droplet Analyzer is an optical aerosol spectrometer for high-resolution measurement of the size distribution and number concentration of cloud aerosols.

Benefits

- Continuous and simultaneous measurement of particle number concentration and particle size distribution
- Intuitive and simple operation
- Remote monitoring, operation and maintenance easily possible
- No radioactive material
- No consumables
- Low energy consumption
- Low maintenance
- On-site calibration possible

Applications

- Cloud research
- Ice nucleation events
- Environmental research

特点

- Determination of the MVD (Mean Volume Diameter), ED (Equivalent Diameter) and LWC (Liquid Water Content) parameters
- Designed for 24/7 operation
- Heated sampling head
- Weather sensor
- Use under difficult climatic conditions

DATASHEET

Measuring principle	Optical light scattering at single particles	报告数据	Particle size distribution, particle number concentration, mean volume diameter, equivalent diameter, water content
测量范围(数量浓度)	0 – 200 particles/cm^3	测量范围(粒径)	0.6–40 μm, 0.8–100 μm
Volume flow	5 l/min	Size channels	64 (32/decade)
Time resolution	1 s–24 h	Interfaces	USB, 以太网（局域网）, RS-232/485
User interface	Touchscreen, 800 • 480 pixel, 7″ (17.78 cm)	Protocols	UIDEP, UDP, ASCII, MODBUS
软件	PDAnalyze	Data acquisition	Digital, 20 MHz processor, 256 raw data channels
Light source	Long term stable LED	Gehäuse	防护等级IP55的防水外壳
Operating system	Windows 10 IoT Enterprise	Power supply	115–230 V, 50/60 Hz
Installation conditions	-30–+40 °C, <95% rH, non-condensing, max. 4.000 m (above sea level)	Probenahmekopf	Sigma-2被动收集器，可加热并自动调节
Dimensions	约1,150 • 742 • 404 mm (H x W x D)	Weight	Approx. 40 kg

additional parameter on our website …