



Lufft CHM 8k Ceilometer

Product #: 8349.02-010

USD Price: Contact Hach

Highest confidence under low clouds

The new Lufft CHM 8k ceilometer empowers meteorologists at weather services and airports to make the right decisions with highest confidence and minimal maintenance. Especially in the critical height below 1 km, the Lufft CHM 8k detects cloud bases in any place and season with outstanding precision and reliability. Internal data storage and a battery backup enable unmatched sensor uptime and data availability even at the harshest conditions.

Accurate

Confident detection of low clouds with minimum False Alarm Rate (FAR) and an outstanding Probability of Detection (POD) even at extreme conditions

Reliable

Maximum sensor uptime and data availability thanks to integrated data storage and a robust battery backup (-40deg to 60deg).

Certified

Safe and certified operation in compliance with UL50e (North America), TÜV (Europe), ICAO GRF.

Specifications

*Parameters Measured:	Lidar (optical, time of flight)
	Aerosol backscatter profile
Accuracy:	±16 ft (±5 m)
Battery Backup:	No
Cable Length:	32.8 ft (10 m)
Cloud Detection Range:	16 - 26,246 ft (5 m - 8 km)
Compliance Certifications:	ISO 10109 - 11
	1M, IEC 60825-1:2014
Dimensions:	19.7 x 19.7 x 61 in (500 x 500 x 1550 mm)
DSL Modem:	No
Field-of-View:	1.1 mrad
Filter Bandwidth:	25 nm
Interface:	RS485 (ASCII communication)
	LAN (Web-Interface, (S-)FTP, NetTools)

Optional: DSL modem, RS485 full duplex for service

IP Rating:	IP65
Light Source:	Laserdiode
Measuring Range:	0 - 32,808 ft (0 - 10 km)
Number of Layers:	1 - 9 layer (programmable); 3 layer preset
Operating Frequency:	8 kHz
Power Consumption:	250 W (Standard) 450 W (in maximum heating mode)
Power Supply:	115 VAC, ±10 %
Product highlights:	Cloud base height (CBH), Cloud penetration depth (CPD), Aerosol layer height (ALH) Cloud cover in octas (WMO 2700), Vertical visibility in m, Sky condition index
Pulse Energy:	3 µJ
Relative Humidity:	0 - 100 %
Resolution:	Time: 2 - 600 s Range: 16, 33, 49 ft
Temperature Range:	-40 - +145 °F (-40 - +63 °C)
Wavelength:	905 nm
Weight:	154 lbs (287 lbs incl. Packaging) or 70 kg (130 kg incl. Packaging)
Wind Speed:	197 ft/s (60 m/s)