

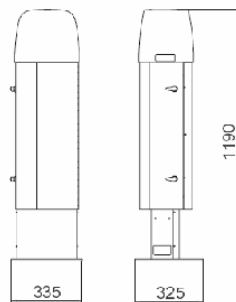


The Ceilometer CL31 is a compact and lightweight instrument for cloud base height and vertical visibility measurements. It is able to detect three cloud layers simultaneously. The CL31 is ideal for aviation as well as meteorological applications where reliable detection of clouds is essential.

The CL31 employs a pulsed diode laser LIDAR (Light detection and ranging) technology, where short, powerful laser pulses are sent out in a vertical or near vertical direction. The reflection of light (backscatter) caused by clouds, precipitation or other obstruction is analysed and used to determine the cloud base height.

Manufacturer	Vaisala
Type	CL31
Measurement range	0 - 75km (25,000ft)
Reporting resolution	5m / 10ft (units selectable)
Operating Environment	-40....+60°C (Temperature) Up to 100% RH (Relative humidity) 55m/s (wind)
Inputs and outputs	
Operating voltage	100/115/230 VAC
Power consumption	Max. 310W (including heating)
Outputs	RS232 / RS-485 / modem
Dimensions	1190x335x315mm
Weight	31Kg
Housing classification	IP65 (NEMA 4)

The enhanced single lens technology applied in the CL31 ensures excellent performance starting at a height of virtually zero. The CL31 measurement cycle can be adjusted between 2 and 120 seconds, which provides flexibility for different applications. The CL31 is fully automatic. In addition to cloud height data the messages contain instrument status information based on comprehensive self-diagnostic routines.



Dimensions in mm

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