



MUIR MATHESON
WEATHER MONITORING

Cloud Ceilometer

CBME80

The Eliason CBME 80A ceilometer is a stand alone instrument designed for fixed and mobile installations where accurate and reliable cloud height information is required.

The design is based on the LIDAR principle. The light emitting component is a low power diode laser with the output power limited to an eye-safe level. The electronics are located in two easily replaceable sub-units, a power supply module and printer circuit board. The sub-units can be replaced by spare parts without recalibration. Features include reliable operation, easy installation and maintenance, very long laser life(calc.10 years), low weight and power consumption.



Manufacturer	Eliason
Type	CBME80
Range	10 — 7500 m / 30 — 25 000 ft
Resolution	10 m / 30 ft
Accuracy	Greater of ± 10 m / 30ft or $\pm 1\%$ of height (against reflector)
Measuring Interval	15, 30, 60, 120 seconds
Operating Temperature	-40 — + 55°C
Power Supply	115V alt. 230V, 45 — 65 Hz (Electronics 30VA, header 200VA)
Outputs	V23 FSK alt RS232C 1200/2400 baud
Output Data	Cloud height (up to three bases) or vertical visibility Cloud amount Ceilometer status Backscatter profile
Weight	15 kg (without stand)
MTBF	170,000 hrs
Accessories	Blower Graphic program Cloud Presentation Suite Digital display BE360 Demodulator V.23 - RS-232C

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