



General

The cloud ceilometer CBME 80 is a standalone 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. Real time digitizing technique is employed in signal detection and the powerful 80C186 microprocessor is used in signal processing.

Data presentation

CBME 80 has outputs for different types of display and recording units. An RS-232C interface supports local control, test and data acquisition. For remote control and data acquisition there is an FSK modem.

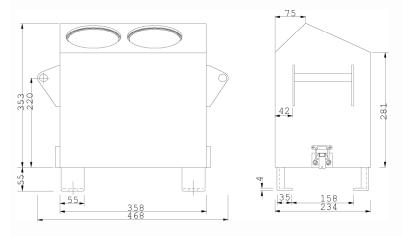
Maintenance

A built-in test system indicates failures in the event of a malfunction. The electronics are located in two easily replaceable subunits, i.e. a power supply module and printer circuit board. The subunits, as well as the laser diode which is placed on the printed circuit board, can be replaced by spare parts without adjustments or re- calibration.

Features

- Reliable operation
- Easy installation and maintenance.
- Very long laser life (calc. 10 year)
- 25 000 feet measuring range capability.
- Low weight and low power consumption.

Dimensions





Technical data

Performance

10 — 7 500 m / 30 — 25 000 ft Range

10 m / 30 ft Resolution

Greater of ±10 m / 30 ft Accuracy

or ±1% of height (against reflector)

Measuring

interval

15, 30, 60, 120 s (selectable)

Laser safety Eye safe Class 1M in accordance to

IEC 60825-1

Environmental

-40 - +55 °C / -40 - 130 °F Operating temp

Weight 15 kg (standalone)

Electrical

Power supply 115V alt 230V, 45-65 Hz

Power Electronics 30VA consumption Heater 200VA

Output

Interface FSK/V23, RS232

Data Cloud height (up to 3 layers) or

vertical visibility

Cloud amount / sky condition

Status information Backscatter profile

Options and accessories

Options Window blower

Solar shutter

Mobile version with local display

Power supply 12V DC Military green color

Graphic software (PC) Accessories

Cloud Presentation Suite

Digital display Demodulator

Fax: +44 (0)1787 883139

Tel: +44 (0)1787 883138 Email: systems@skyview.co.uk Web: www.skyview.co.uk