

400-CBME40/80 Cloud Ceilometer



400-CBME40A Cloud Ceilometer

- *Reliable operation*
- *Easy installation and maintenance*
- *Very long laser life (calc 10 year)*
- *12,500 and 25,000 feet measuring range capability*
- *Low weight and low power consumption*

The **Model 400-CBME40 Cloud 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. Real time digitizing technique is employed in signal detection and the powerful INTEL 80186 microprocessor is used in signal processing.

The 400-CBME40 has outputs for different types of display and recording units. An RS232 interface supports local control, test, and data acquisition. For remote control and data acquisition, there is an FSK modem.

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 printed 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 recalibration.

Specifications

Range: 30-12,500 feet and 30-25,000 feet
 Resolution: 20 feet
 Accuracy: 20 feet or 2%, whichever is greater
 Measuring interval: Selected ranges
 Outputs: RS232C, V.23 alt. V.21, Bell 103 alt. Bell 212
 Output data: Cloud height (multiple bases)
 Monitoring data
 Back scatter signal profile
 Operating temperature: -40° to +50°C
 Power supply: 120/230V, 50 Hz, 25 VA, 200 VA (heater)
 Color: White
 Weight: 14 kg without stand
 Laser safety: Class 1 laser product SSIFS 1980:2 (SS-EN60825)

Options

Mobile version with local display
 Stand for permanent installation
 12 Vdc (not connected to heater)
 Green color

Accessories

Graphic program with storing functions, for IBM-PC (DOS 5)
 Display unit, chart recorder
 Demodulator V.23 - RS232

Ordering Information

400-CBME40	Cloud Ceilometer, 12,500 feet detection Specify 110Vac or 220Vac operation Specify RS232 or FSK output
400-CBME80	Cloud Ceilometer, 25,000 feet detection Specify 110Vac or 220Vac operation Specify RS232 or FSK output
400-CHI-BE	Digital Display
400-CHI-BL	Blower Option
400-CHI-DM	FSK Modem
400-CHI-S	Support Stand
400-CHI-SS	Sun Shutter
400-CHI-SW	Display Software, for Windows