



Ceilometer

S1349Z

- Measures cloud heights to 25,000 ft
- Low weight and low power consumption
 - Very long laser life (calc. 10 year)
 - Easy installation & maintenance

This 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. A real-time digitizing technique is employed in signal detection, and the powerful INTEL 80186 microprocessor is used in signal processing.



The Ceilometer has outputs for different types of display and recording units. An RS-232C interface supports local control, testing, 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 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 recalibration.



Technical Specifications

S1349Z

Range:	50 - 25,000 ft
Resolution:	50 ft
Accuracy:	100 ft or 2% (whichever is greatest) against reflector
Measuring Interval:	30 / 60 seconds
Outputs:	RS-232C, V.23 alt. V.21, Bell 103 alt. Bell 212
Output Data:	Cloud height (multiple bases) Vertical visibility Monitoring data Back scatter signal profile
Operating Temperature:	-50°C to +50°C
Power Supply:	230 V, 50 Hz, 25 VA 200 VA (heater) 12 VDC option (not connected to heater)

PHYSICAL

Color:	White
Weight:	15 kg (without stand)

<u>Options:</u>	Mobile version with local display Stand for fixed installations Solar shutter for tropical zone installations Blower for clearing heavy snow from ceilometer (blower cannot be on if a battery is being used)
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