



CS120A

HIGH PERFORMANCE VISIBILITY MEASUREMENTS



Product Description

The CS120A Visibility Sensor uses tried-and-tested, infrared for-ward-scatter technology, and uses the proven 42° scatter angle to report meteorological observable range (MOR) for fog and snow in the range 10 to 30,000 m. It combines a high specification with a very competitive price & is ideal for stand-alone applications or in combination with automatic weather stations in road, aviation, wind-energy, and marine environments.

Benefits and Features:

- High-performance sensor at a competitive price
- FAA-recommended 42° scatter angle for good Meteorological Observable Range (MOR) readings in all precipitation types
- Incorporates automatic dew and hood heaters for all weather operation
- Simple field calibration using optional calibration kit
- Low power—suitable for remote application
- Automatic status check for faults or window contamination Sensor design minimizes air flow disruption at measurement volume.

Technical Specifications

OPERATIONAL	
Max. / Min. Reported Visibility	32 km / 10 m
Operating Temperature	-25° to +60°C
Operating Humidity	0 to 100%
Wind Speed	Up to 60 m s ⁻¹
Sensor Sealing	Rated to IP66
Accuracy	0 to 10,000 m: ±10% 10,000 to 20,000 m: ±20%
OPTICAL	
Emitter Light Frequency	850 nm
Lens Contamination Circuitry	Monitors both the source and detector lenses for contamination/blockage at 1 s intervals; sensor adjusts its calibration for low to moderate window contamination
Light Source Stability Control	Ensures stable operation through variations in temperature and with sensor aging; corrected at 1 s intervals.
MECHANICAL	
Weight	~3 kg (dependent upon mounting system)
Height / Width / Depth	44.7 cm / 64 cm / 24.6 cm
Mounting	Stainless-steel V-bolt bracket that attaches to a pole with a 32 to 52.5 mm outer diameter