



The Professional Combination Sensor (MT-CB0002) is a fully automated instrument that provides accurate visibility, present weather, and precipitation measurement in a single sensor. This next generation intelligent sensor uses all digital signal processing (DSP) for no-drift high-accuracy results. The patented environmentally adaptive algorithms use artificial-intelligence technology derived from over 100 million field hours of real-world data from sensors installed around the world. The result is the most advanced weather sensor in the world.

This Combination Sensor has over 2,000 systems in the field, providing critical weather information to airport, highway, military, research, and meteorological weather information systems worldwide. It is designed for year-round continuous operation in all climates from Antarctica to tropical rain forests, detecting and quantifying rain, snow, drizzle, freezing, and mixed precipitation conditions.

The MT-CB0002 uses DSP electronics to eliminate the need for field calibration, and it has built-in self-diagnostics and testing. Accurate visibility measurements are possible over a standard range of 0 feet to more than 10 miles, and measurements up to 20 miles are available as an option.

Technical Specifications

Measurement technique:	Scintillation with optical forward scatter and optional acoustic for hail and ice pellets
Present weather type ID:	Rain, snow, drizzle, mixed, hail and ice (optional)
Accumulation:	.001 to 999.999 mm (rain and snow)
Measurement resolution:	.001 mm (rain & snow)
Measurement accuracy:	rain – 5% accumulation snow – 10% accumulation
Visibility range:	0.001 to 10 km (extended ranges available)
Visibility accuracy:	10% to 5 km 15% to 10 km
Visibility time constant:	3 minute harmonic
Ambient light:	0 to 9,999 candles / m ²
Environmental:	-40°F to +122°F (-40°C to +50°C)
Humidity:	0-100%
Power:	10 - 18 VDC, 3 A nominal HIP requires 110/220/ VAC, 100 VA
Output:	RS-232 ASCII
Dimensions:	35" x 5" x 11" (890 x 130 x 280 mm)
Weight:	Sensor – 10 lbs. (4.5 kg)

The Professional Combination Sensor is an excellent choice for aviation use.

Ordering Options

- Visibility and present weather sensor
- Hail and ice pellet add-on sensor

