



SENTRY is an electro-optical device to measure the opacity through air existing particules (dust, gas emission, fog, rain, snow, etc).

It uses frontal dispersion principle, receiving a sample of light in a 42° angle. The width of this angle allows it to detect big size particles.

SENTRY advantages against others:

1. It doesn't need calibration during the installation
2. External vibrations don't affect the sensor calibration.
3. Sentry uses the frontal dispersion principle, other opacimeters use less effective technologies as retrodispersion.

CHARACTERISTICS

An integrated, one-piece housing design keeps all cabling internal to the sensor for the ultimate protection against the elements. The sensor housing is made from anodized aluminum and the enclosures are rugged, UV-resistant fiberglass rated to IP66.

The sensor uses a "look down" geometry to reduce window contamination and clogging from blowing snow.

Optionally, heaters are available to prevent freezing in cold environments.

All power and signal lines are protected with surge and EMI filtering to help guarantee uninterrupted service for the life of the sensor.

INSTALLATION, MAINTENANCE AND CALIBRATION

Installation and maintenance effort are minimal.

The sensor has been already calibrated at factory. Re-calibration in the field is as simple as follow the instruction manual and you will only need maintenance suitcase.

Calibration recommended: once a year.

TECHNICAL CHARACTERISTICS

Range	0-15 x 10 ⁻³ m ⁻¹	Power supply	100-240V
Precision	+/- 10% RMSE Operational +/- 1% Full Scale Calibration	Working temperature	-40° a 60° C
Time constant	60 s	Humidity	0-100%
Dispersion angle	42° nominal	Protection	IP66 (NEMA-4-X)
Source	880 nm LED	Weight (kg)	8
Output	4-20mA with control and/or relay diagnosis	Dimensions (cm)	88,9 x 29,2 x 30,5

**THIS DEVICE IS GUARANTEED AGAINST ANY MANUFACTURING DEFECT FOR 1 YEAR
FROM THE DATE OF PURCHASE**