visibility



Model 73000 Sentry[™] Visibility Sensor

YOUNG

CE

Visibility Range:

The YOUNG SentryTM Visibility Sensor measures atmospheric visibility (meteorological optical range) by determining the amount of light scattered by particles in the air (smoke, dust, haze, fog, rain, & snow).

Performance in all weather conditions is achieved with an integrated design that keeps all cabling internal to the sensor for complete protection from hazards. The sensor is made from anodized aluminum and rugged, UV-resistant fiberglass enclosures. Based on the proven field experience of the NWS and FAA, the sensor uses a "look down" geometry to reduce window contamination and clogging from blowing snow. The optical windows have continuous duty anti-dew heaters. Optional thermostatically controlled external hood heaters are available for additional protection in extreme environments. All power and signal lines to the Sentry™ are protected with surge and EMI filtering to ensure uninterrupted service for the life of the sensor.

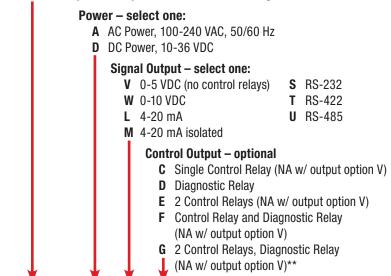
Installation and maintenance are simple with the Sentry[™]. A sturdy mounting flange located on the bottom of the main enclosure mates with a user-supplied 1-1/2 inch IPS mounting pipe. Power and signal cables are installed through waterproof cable glands on the bottom of the main enclosure to terminal boards for simple but reliable connections.

Calibration of the Sentry™ in the field is as simple as attaching a factory supplied calibration fixture and following a procedure that takes less than 30 minutes.

Ordering Information

73000	Sentry [™] Visibility Sensor	

73004 Sentry[™] Visibility Sensor with Hood Heating



* NOTE: Option G not available with Options S, T or U

EXAMPLE: 73004-DWF = Sentry™ Visibility Sensor with hood heating, DC power, 0-10 VDC output, single control relay and single diagnostic relay

Accessories

73062 Calibration Fixture – recommended 74050 Mounting Bracket – for vertical surfaces including walls, traffic poles and Rohn-type towers 73038 Hood Extensions





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Specifications

visibility naliye:	30 III – 10 KIII
Accuracy:	+/- 10% RMSE
Time Constant:	60 sec
Scatter Angle:	42 deg nominal
Output Options:	0-10 VDC
	0-5 VDC
	4-20 mA
	4-20 mA Isolated
	RS-232, RS-422 or RS-485
Relay Options:	2 Control
	1 Diagnostic
Power: AC Version:	100-240 VAC, 24 VA Nominal
	75 VA w/ hood heating
DC Version:	10-36 VDC, 6 VA Nominal
	18 VA w/ hood heating
Operating	, , , , , , , , , , , , , , , , , , ,
Temperature:	-40 to +60 C
Humidity:	0 to 100% RH
Protection:	IP66 (NEMA-4X)
Weight:	8 kg (18 lb)
Dimensions:	889 mm x 292 mm x 305 mm
(W x H x D)	35" x 11.5" x 12"
Mounting:	48 mm (1.9 inch) diameter
mounting:	(standard 1.5 inch IPS pipe)
Ontional	34 mm (1.3 inch) diameter
Optional:	(standard 1 inch IPS pipe)
Construction:	Frame: Anodized Aluminum
	Enclosures: Fiberglass,
	UV Resistant
Certifications:	This equipment is in compliance
	with the essential requirements
	and other provisions of Low
	Voltage Directives 73/23/EEC and
	89/336/ EEC as amended by
	Directive 93/68/EEC.

30 m – 16 km