



Accurate visibility measurements

The MSM visibility sensor, model MVS, is designed for general meteorological applications in extreme marine conditions where accurate and reliable visibility measurements are required.

FEATURES

- Monitors visibility and obstruction to vision caused by dust, fog, rain, drizzle, snow and hail.
- Selectable measurement range up to 40 km.
- Compact forward scatter design.
- Flexibility to connect to a wide range of data collection/processing units.
- Easy installation.
- Optical sensor hood heating for use in extreme environments.
- Comprehensive self-test and maintenance data.
- Not affected by local lights.
- Full date/time stamp in data string provided by the real time on-board clock.
- Simple field calibration, automatic sequence can be initiated after fitting calibration plaque.
- Accurate and traceable measurement



It is manufactured with robust aluminium and finished with a high quality powder coat to achieve a long life in the harshest marine conditions.

Heating of the optical windows and sensor hoods is provided as standard, allowing the use of the MVS in the harshest weather conditions

The marine grade sheathed cables ensure IP66 performance in all weather conditions for monitoring changes in visibility due to rain, snow, fog, smoke and dust.

With a measurement range of 10 m to 40 km, the sensor is suitable for use in offshore applications as well as meteorological observation networks.

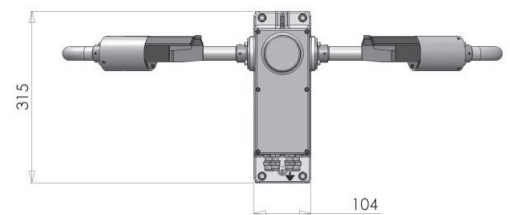
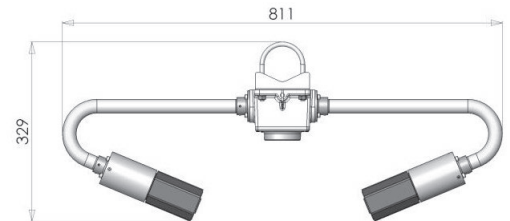
! Specifications subject to change without previous notice.

Power requirements

Sensor power:	12 or 24 Vdc, 10 VA Nominal.
Power source sensor (Power):	3.5W.
Power source Hood Heaters (Power):	24 W.
Additional Power for window heaters:	1.7 W.
Specifications range:	10m to 40km
Accuracy:	+/-10%.
Scatter angle:	45° with ± 6° cone angle

Materials and environment

Temperature range:	-40° C to +60° C
Material hardware:	Powder coated aluminium
Dimensions of sensor (L x W x H):	811 x 329 x 315 mm
Weight:	3.5kg
Watertightness degree:	IP 66 (NEMA-4X).
Humidity:	From 0 to 100%.



Outputs Reports

Analogue outputs:	0-10 VDC - 0-5 VDC - 4-20 mA - 4-20 mA Isolated.
Serial outputs:	RS-232, RS-422 or RS-485.
Switching relays:	Providing flexible configurations.
Control Output optional:	Control and diagnostic relay.
Output rate (seconds)	30 to 300 (selectable)

Standards and Certifications

CE certified

EMC compliance with EN61326-1997, 1998, 2001

RoHS and WEEE compliant

Options

Available with support.
 Power and data cables
 Mains power adaptor
 Calibration kit
 ALS-2 Ambient Light Sensor
 Hard shell transport case

