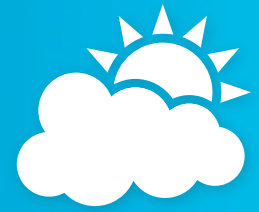


RVR MOR Visibility Sensor HSS VPF-710



FEATURES

- ▶ Visibility output MOR, EXCO
- ▶ Integrates easily into airfield weather information & monitoring systems
- ▶ Used in the FAA approved SuperAWOS system in the USA
- ▶ Provides digital output & sophisticated levels of self test functions for remote monitoring of sensor status.
- ▶ Compact system with all electronics contained in the sensor head
- ▶ Combination of design, light-source, wavelength & undisturbed sample volume give this sensor unbeatable accuracy.
- ▶ Low Power: Integrates into LOw-power control systems & weather stations
- ▶ Optimum Design : Range provides the best correlation of EXtinction COefficient (EXCO) to observed visibility. In reduced visibility, other sensors report only precipitation, the RVR MOR sensors report accurate visibility & precipitation data.
- ▶ Accuracy: Uses an infrared diode light source proven to provide higher accuracy, longer life & more consistent reading.
- ▶ Consistency in All Weather : Measurements are accurate regardless of wind direction & precipitation. Sensor resists turbulence effects & precipitation splashing off the instrument enclosure.
- ▶ The “no-dew heaters” on viewing windows & optional hood heaters ensure heads remain free from mist & obstruction even in extreme blowing snow.
- ▶ Suitable for use on CAT I, II and III airports and helipads used in FAA, CAA & other similarly approved systems
- ▶ Intelligently adjusts intensity of navigational warning lights in line with the current level of visibility to minimise light pollution & flash synchronisation.
- ▶ Proven accuracy, reliability & repeatability
- ▶ Corrosion Free: Manufactured from hard-anodised aluminium, salt-dip brazed which ensures that sensors are strong & leak-free. The military standard anodising provides unrivalled corrosion resistance & guarantees long-term durability since the metalwork is totally maintenance free.
- ▶ Unaffected by snow & surface water reflections that cause measurement errors, the sensor heads are positioned in the horizontal plane to ensure that measurements are not influenced .
- ▶ High Measuring Ranges: The wavelength of RVR MOR is perfect for the shift in light from white (visibility below 1 mile) to blue (visibility from 1 mile to several miles). RVR MOR also detects the shift from the white to blue spectrum and so maintains accuracy to much higher visibility ranges.



APPLICATION EXAMPLES

Airports & Helipads Wind Farms
 Meteorological Data Networks Offshore Platforms
 Marine & Roadside Weather Stations

SPECIFICATIONS

| <i>Specifications subject to change without notice</i> | |
|--|-------------------------|
| Measures | Visibility |
| Output | Digital |
| Range | 10m to 75km |
| Accuracy | ± 2 % |
| Light-source used | Infra-red |
| Light- source wavelength | 880nm |
| Forward Scatter Meter (FSM) angle used | 45° |
| Measurement geometry | Horizontal |
| Sample volume size (com3) | 400 |
| Power requirements | |
| Sensor head | 2.0 W |
| Window heaters | 1.7 W |
| Power Supply Unit (PSU) | N/ A |
| Hood heating option | yes |
| Hood heater power requirements | 30 W |
| Suitable for mains, battery, solar power | yes |
| Operating temperature range | -50°C to +60°C |
| Weight: sensor head | 7 kg |
| Output rate (seconds) | 10 to 300 (selectable) |
| Method of construction | Salt-dip brazing |
| Materials | Hard-anodised aluminium |
| Reliability | > 8 years (MTBF) |
| Undisturbed sample volume | yes |

ORDERING

| 5600-VPF-710 | RVR MOR/EXCO Visibility Sensor |
|------------------------------|--|
| Accessories | |
| Calibration Kit | End-user confidence checks & re-calibration. Contains a carrying case, zero plugs & calibration plaque to a specific EXCO value. Use one kit for multiple sensors. |
| Stainless Steel Mounting Kit | Includes U-bolt & fasteners to secure sensor to any pole with a diameter between 40 - 64 mm |
| Transit Case | Scientific case lined with 3 inch foam to hold the sensor securely in place in extreme handling conditions |