IDVIEW

Visibility Monitoring Sensor

IV-707X

Dense Fog, Haze

IV-707X visibility sensor is be composed of the light emitter, light receiver and microprocessor controllers and other components. Emitter emits pulses of infrared light, the receiver simultaneously detect Pulses of light intensity from atmospheric particles scattering. All information collected by measuring micro-controller and through specialized mathematical model algorithm into a meteorological visibility distance. IV-707X visibility sensor is able to transmit the visibility data and get 12VDC power via RS485 communication interface.

Key features：

- Integrated design, compact, lightweight, easy to install.
- Inclination structure designed to prevent dust, rain, snow, sun pollution
- Anti-dust, anti-fungal coating treatment, P65 degree of protection.
- Low consumption, in the winter heating state, less than 5W
- Light extinction process, prevent secondary stray light interference.
- 15KV ESD protection ,Lightning-protection design

Applications：

Traffic roads, railways, bridges, tunnels airports, ports and ocean monitoring. Atmospheric environment monitoring, urban weather monitoring, and military applications.

Specification：

Measurement parameters	
Range：	5m ~ 80km (optional)
Accuracy：	≤2km, ±2%
	2Km ~ 10km, ±5%
	>10Km, ±10%
Instrument consistency：	≤±4%
Interval	15 and 60 second optional
Optical	
Scattering angle coverage	39° ~ 51° Forward scatter
Peak wavelength	870nm
Bandwidth	100nm
Power supply	
Power	DC12V
Consumption	<5W, Typical 4W
Mechanism	
Dimension (L*W*H)	610mm x 230mm x 300mm
Weight	<10Kg
Material	Anodized hard aluminum with spray paint protection on the outer surface
Working environment	
Operating temperature	-50℃ ~ +80℃
Operating humidity	0 ~ 100%

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