

HY-VTF306AE Forward Scattering Visibility Sensor

Introduction

HY-VTF306AE Visibility detector is made of stainless steel, anti-corrosive material. It measures atmospheric visibility by determining the amount of light scattered by different particles (smoke, dust, haze, fog, rain or snow) in the air that pass through the optical sample volume. When the air is clear, very little light is scattered since there are few particles in the sample volume resulting in a small signal received by the sensor. As the number of particles in the sample volume increases, the amount of light detected by the receiver also increases. In other words, the received signal strength is inversely proportional to the visibility.

Features

- 10m to 30km measurement range
- Corrosive-proof design for maritime application
- Low maintenance requirement
- Not affected by local light sources
- Hood heating for use in extreme environments

Site photo



Specification

Visibility: 10 ~ 10 000 meters

30 000 meters is optional with extra cost

Resolution: 1 meter

Accuracy: $\pm 10\%$

Serial Output: RS232 or RS485

Analog output: 4-20mA or 0-5V (with extra cost)

Formats: ASCII active output,

MODBUS-RTU, SDI-12

Baud rate: 1200 ~ 115200 bps

Power Requirement:

Sensor: 12-24 VDC 3.8W

Environmental:

Operating Temperature: $-40 \sim +60^{\circ}\text{C}$

Protection Class: IP65

Dimensions: 252x700x170 mm

Weight: 4kg

Shipping Weight: 20 kg



Hongyuv Technology Co., Ltd.

Xinye Road 4th, Pidu Zone, Chengdu City, Sichuan Province, China

TEL / Whatsapp: +86 18681878709 Skype: stefan@hongyuv.com

Email: stefan@hongyuv.com

Wechat: wswgenius

Website: www.hongyuv.com/en