

Compact Visibility Meters

»Product Introduction

Haze consists of a combination of numerous tiny water droplets and fine particulate matter in the air. The infrared light emitted by the light source of the HY-SLV2E series visibility meter is scattered by water droplets and detected by a highly sensitive detector. Within the forward-scattering visibility meter’ s forward sampling range, the greater the number of water droplets or other fine particles present, the greater the intensity of the scattered light; the instrument uses embedded software to calculate and convert the scattered light intensity into a standard visibility value.



SLV2E



SLV2-2E

»Technical Indicators

Project	HY-SLV2E	HY-SLV2-2E
Range	10–2000 m (Can be expanded to 5000 m)	10–6000 m (Can be expanded to 10000 m)
Accuracy		±5% (10–2000 m), ±10% (2000 meters or higher)
Light Source		High-Brightness Infrared LED
Data Refresh		10 Second
Digital Output		RS485/232
Operating Range		-40 ~ 80 °C, 0–99%RH
Power Input		VDC: 12–24
Power Consumption		4 W
Housing Material	Stainless steel + powder-coated finish	Die-cast aluminum + powder-coated finish
Size	280 × 150 × 150 mm	281 × 180 × 90 mm

»Applications

- Ports, Waterways, and Coastal Areas
- Highway and Traffic Meteorological Monitoring
- Automatic Weather Stations

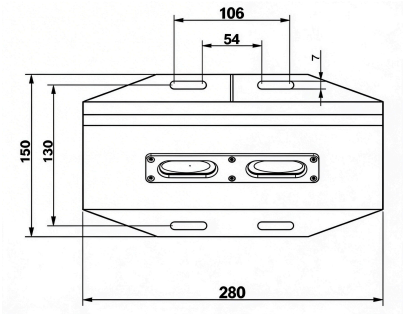


»Key Features

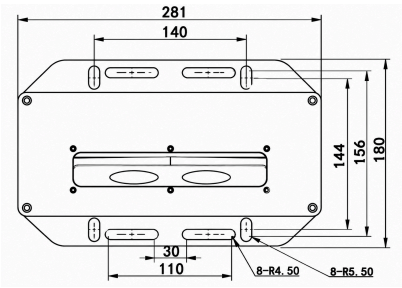
- Both the transmitter and receiver components are housed in a waterproof cast aluminum enclosure, making for a sturdy design
- The housing is made of aluminum alloy and has undergone anodizing and powder coating
- Compact size, wide measurement range
- The lens features a patented anti-webbing design that prevents insects such as spiders from spinning webs in the optical detection area, which could otherwise affect measurement data, thereby ensuring maintenance-free operation



»Product Showcase



SLV2E



SLV2-2E