

## SEM226VP Visibility Meter

### MAIN FEATURES

- 10m to 10km measurement range(can extend to 100km)
- Ideal for road long distance visibility data collection
- Accurate and traceable measurement
- High mechanical strength,Low maintenance
- Not affected by local lights
- Hood heating for use in extreme environments



### OVERVIEW

SEM226VP is a professional meteorological visibility sensor. SEM226VP series offers optional modules for weather phenomenon detection—capable of identifying precipitation types (such as rain and snow) and distinguishing between intensities like drizzle, light rain, moderate rain, and heavy rain—as well as optional precipitation modules to measure rainfall intensity and accumulation, providing a versatile, multi-functional solution.

They feature a robust yet simple structure, excellent operational stability, high reliability, low power consumption, and ease of maintenance. It operates on a DC 12–30V power supply and includes an automatic heating control module for the optical lenses, ensuring normal operation even in extreme conditions such as severe cold.

The SEM226VP-A model features a stainless-steel housing, making it ideally suited for high-salinity, humid environments such as ships, drilling platforms, and coastal areas. To meet the demands of hazardous environments containing flammable gases, the series also includes the explosion-proof SEM226VP-AD model—currently the only explosion-proof visibility sensor available on the market.

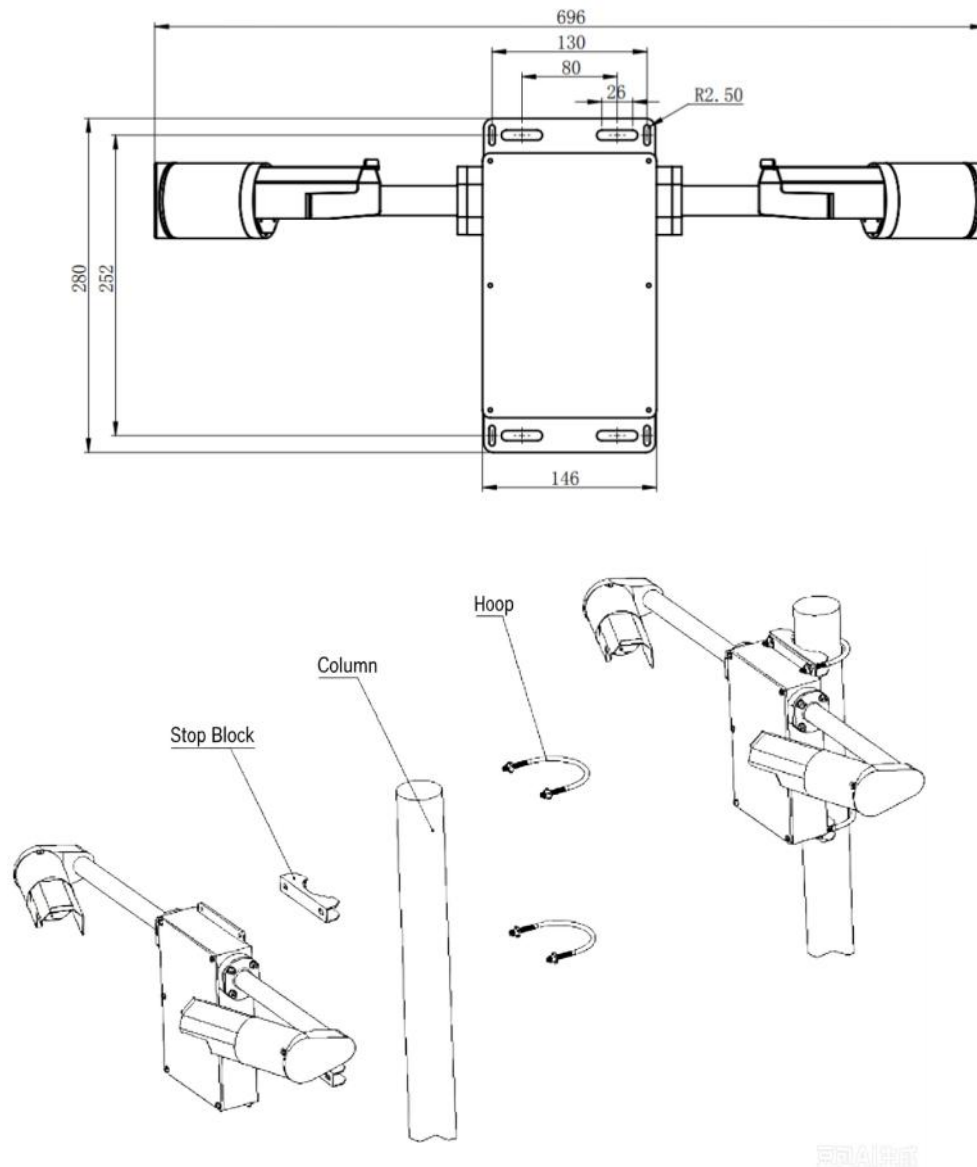
The SEM226VP-B model utilizes a cast-aluminum housing that is both durable and lightweight, making it suitable for installation along highways. Its extremely compact and portable design also allows for installation on high-speed moving vehicles.

### SPECIFICATION

|                                            |                                                                                                                                                                                      |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurement range                          | 10m–10km (extendable to 80km)                                                                                                                                                        |
| Measurement accuracy                       | ±10% (10m–10km)                                                                                                                                                                      |
| Weather phenomena module (Optional A)      | Identifies four types of precipitation: drizzle, light rain, moderate rain, and heavy rain<br>Identifies weather conditions such as rain, snow, light fog/haze, and dense fog/ smoke |
| Weather phenomena measurement (Optional B) | Identifies parameters from Option A and measures precipitation intensity:<br>Measurement range: 0–200 mm/h<br>Resolution: 0.1 mm (rainfall)                                          |
| Communication baud rate                    | 4800–19200                                                                                                                                                                           |
| Digital communication                      | RS485/RS232                                                                                                                                                                          |
| Analog output (Optional)                   | Voltage output: 0–5/10V; Current output: 4–20 mA                                                                                                                                     |
| Communication protocol                     | Modbus, ASCII                                                                                                                                                                        |
| Weight                                     | Aluminum alloy: ≤2.8 kg; Stainless steel: ≤20 kg                                                                                                                                     |
| Dimensions                                 | 646 mm × 328 mm × 176 mm (SEM226VP-A/SEM226VP-AD)<br>696 mm × 280 mm × 182 mm (SEM226VP-B)                                                                                           |
| Power supply                               | DC 12–24V; AC 220V (optional)                                                                                                                                                        |
| Power consumption                          | ≤5W                                                                                                                                                                                  |
| Ambient temperature                        | –40°C to +60°C                                                                                                                                                                       |
| Air humidity                               | 0–100%                                                                                                                                                                               |

## DIMENSION

UNIT: MM



## APPLICATION

It is primarily used in sectors such as expressways, shipping, drilling platforms, waterways, ports, wind power generation, and automated weather stations.

