

# Hydrogen Sulfide(H<sub>2</sub>S) Transmitter

# Aecl<sup>®</sup>

## AVC-610 Series

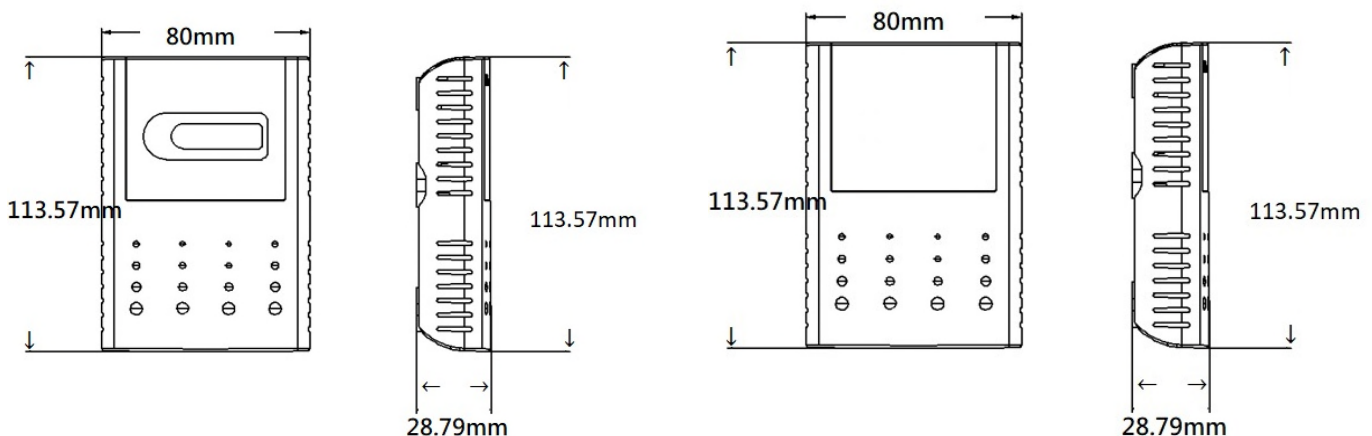
### ■ Features

Hydrogen sulfide (H<sub>2</sub>S) is poisonous, corrosive, and flammable, with the characteristic foul odor of rotten eggs. It occurs naturally in sewers, crude petroleum, natural gas, volcanic gases, and hot springs. People usually can smell hydrogen sulfide (H<sub>2</sub>S) at low concentrations in air ranging from 0.0005 to 0.3 ppm. Exposure to lower concentrations can result in eye irritation, a sore throat and cough, nausea, shortness of breath, and fluid in the lungs. Long-term, low-level exposure may result in fatigue, loss of appetite, headaches, irritability, poor memory, and dizziness. Short-term, high-level exposure can induce immediate collapse, with loss of breathing and a high probability of death.

AVC-610 series is designed to monitor hydrogen sulfide level and send the data to monitoring center for analysis or for timely alert. Easy installation and the recommended height of installation is 30~60cm above the floor level. It is perfect for rooms or area where some devices easily generate hydrogen sulfide (H<sub>2</sub>S) and with poor ventilation, such as wastewater treatment factory, food processing plant, indoor hot spring, chemical laboratory, basement or indoor parking.



### ■ Dimensions



V.E.20220804

## ■ Specifications

<b>Model</b>	<b>AVC- 610</b>
Measurement method	Electrochemical
Response time	$\tau_{90} \leq 60$ sec.
Measurement range	0~50.0ppm
Accuracy (at 25°C)	±5% for 0~50.0ppm
Resolution	0.1ppm
Repeatability	Reading ± 2 %
Drift	Zero: < ± 0.1ppm /year; Span: <10% reading /year
Coverage area	About 525m <sup>2</sup> <sup>(1)</sup> <sup>(4)</sup>
Signal output	RS485 (Modbus RTU); LoRa (Peer to Peer), radio frequency band: 862 ~ 932 MHz <sup>(2)</sup>
Linearity error	< 10 ppm (at -10°C~ 50°C)
Calibration interval (Recommended)	12 months
Sensor lifespan	2 years <sup>(3)</sup>
Pressure range	1 atm ± 10 %
Operating environment	-10°C~ 50°C (14 ~ 122°F); 15 ~ 90%RH, non-condensation
Storage temperature	-10°C~ 50°C (14 ~ 122°F)
Warm-up time	≤ 1.5 minutes (Full scale ≤ 15 min.)
Power supply	DC12 ~ 36V, AC 24V (50/60Hz)
Power consumption	RS485: 0.1W (Max.); LoRa / RS485: 1.2W (Max.)
Case material	Fireproof ABS
IP rating	IP30 (No protection from liquids)
Certifications	CE and FCC

### Note:

- (1) The coverage area should be considered individually to account for the particular layout and any varying or enclosed spaces. It is recommended to install at least one device in each room.
- (2) The frequency channels will be differed by country and this frequency can be configured accordingly from 862 to 932Hz.
- (3) The lifespan of sensor might vary depending on environmental conditions. For example, high ambient temperature will shorten its lifespan.
- (4) Easy installation and the recommended height of installation is 30~60cm above the floor level.

## ■ Ordering information

**AVC-610**□□□-M

Code 1	Installation	Code 2	Output	Code 3	Display
W	Wall- mount	4	RS485	X	No
		6	RS485 / LoRa	D	Yes