

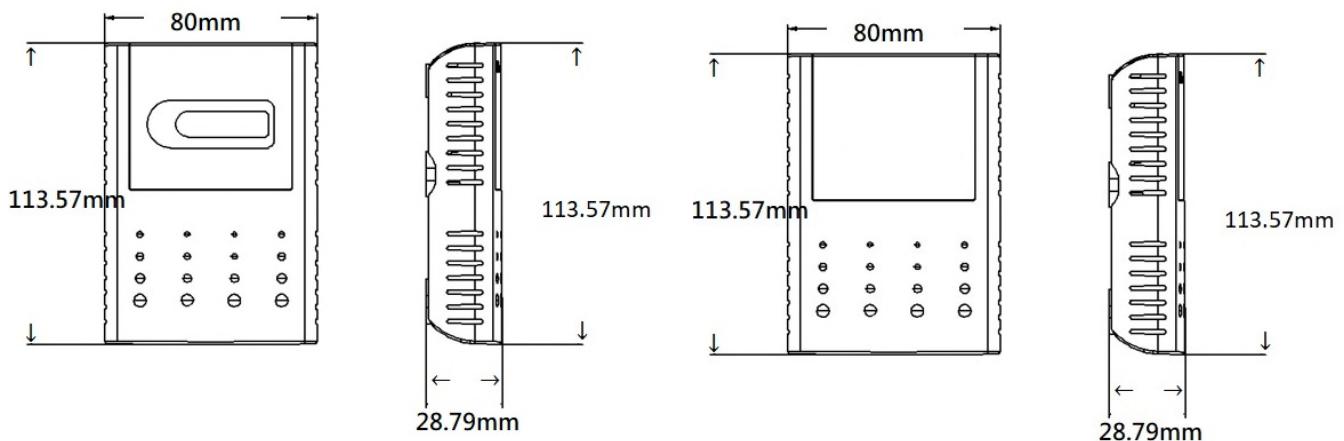
■ Key Features

- High-precision sensor
- Supports RS485, Modbus RTU communication output
- Optional LoRa wireless transmission for easier installation
- High reliability and stability
- High sensitivity and fast response

Monitoring indoor air quality requires the effective detection of various gases or harmful substances. Total Volatile Organic Compounds (TVOC) are a significant factor affecting air quality. The AVC-910 air quality transmitter can monitor TVOCs, allowing for effective management of indoor air quality when used with air purification or ventilation systems. It employs high-precision, low-power consumption sensors to provide accurate air quality reference values. Data can be transmitted in real-time to a central control center or computer via RS485 or LoRa wireless transmission for analysis and air quality improvement measures. Suitable for homes, offices, indoor parking lots, libraries, hospitals, shopping malls, and more.



■ Dimensions



■ Specifications

Model	AVC-910 TVOC Transmitter
Measurement Principle	MEMS metal oxide
Response Time	< 10 sec. (τ63 %)
Accuracy (at 25°C)	< ±15 VOC Index points ⁽⁵⁾ / < ±20 ppb
Resolution	1 VOC Index point / 1 ppb
Reproducibility	< ±5 VOC Index points / < ±15 ppb
Drift	—
Measurement Range	0 ~ 500 VOC Index points / 0 ~ 500 ppb
Detection Coverage	Approximately 100m ² ⁽¹⁾⁽⁴⁾
Output Signal	RS485 (Modbus RTU); LoRa (Peer to Peer) Frequency: 862 ~ 932 MHz ⁽²⁾
Recommended Calibration Interval	12 months
Sensor Life	2 years ⁽³⁾
Pressure Range	1 atm ± 10%
Operating Environment	-10°C ~ 50°C (14 ~ 122°F); 15 ~ 90%RH (non-condensing)
Storage Environment	-10°C ~ 50°C (14 ~ 122°F)
Warm-up Time	Approximately 5 minutes
Power Supply	DC 12 ~ 36V, AC 24V (50/60Hz)
Power Consumption	RS485: 0.3W (Max); LoRa / RS485: 1.4W (Max)
Housing Material	Fireproof ABS
Protection Level	IP30
Certifications	CE and FCC

Notes:

- (1) The detection coverage range is specified under the condition of no obstructions. If there are partitions, it is recommended to install at least one unit per space.
- (2) The specific frequency band used can be set within the given range according to national regulations.
- (3) The sensor life is based on normal usage conditions. If the installation environment is at the threshold of suitable conditions for extended periods, the sensor's lifespan may be reduced.
- (4) The recommended installation height is between 1 to 2 meters above the ground.
- (5) VOC Index points: An index value of 100 indicates average air quality over the past 24 hours. An index value between 100 and 500 indicates deteriorating air quality, while an index value between 0 and 100 indicates improving air quality.

■ Ordering information

AVC-910□□□-M

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