Hitelecom®

AIR QUALITY SENSOR (4 IN 1)



4 IN 1 KEY INDICATORS

CO2 Range
400-5000ppm
Accuracy: 30ppm±3%

Air Pressure
30-120Kpa
Accuracy: 0.1Kpa

Humidity Range
0-100%
Accuracy: 1.5%

Temp Range
-30~+75°C
Accuracy: 0.2°c

OVERVIEW

The H310-AQ041 is a high-precision gas measurement smart terminal, which combines wireless communication technology with industrial-grade sensors, designed to provide stable and reliable performance in a variety of harsh environments. Suitable for a variety of applications including urban indoor and outdoor air quality monitoring, gas leak detection,emergency response to waste gas emissions, and petrochemical industries.

FEATURES

Cloud
Supports public cloud and private cloud services

Green
Ultra low power consumption, battery life for over 10 years under standard operating conditions

IP65
Ensuring stable and reliable performance even in the harshest industrial environments

NFC
Using innovative NFC technology for power on/off and operation and maintenance configuration

OTA
The cloud platform enables one-click, remote, firmware updates for devices, ensuring all devices run the latest version to enhance system stability.

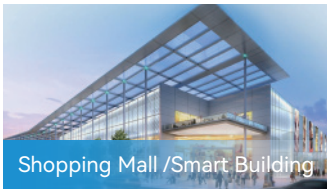
Innovation
Its Ultra low-power design and consistent long-term operation make it an ideal component in IoT solutions

APPLICATIONS















Item Numbers		Description
Physical Characteristic	Network Standard	LTE Cat.1 GSM Version (Excluding Japan and Korea)
	Power Supply	Battery-Powered 19000mAH
	Consumption	Sleep Mode: 25uW
	Battery Life	10Year+ (10Min interval, Hourly Reporting)
	SIM card	"Type1: Standard IoT SIM Card Type2: Embedded SIM (eSIM option) "
	Antenna	Built-in
	Size	130*66*66
	Installation	Flexible installation options: Wall, Pole, or DIN rail mounting.
Frequency Band	FDD-LTE	B1/ B2/ B3/ B4/ B5/ B7/ B8/ B12/ B13/ B18/ B19/ B20/ B25/ B26/ B28/ B66
	TDD-LTE	B34 / B38 / B39 / B40 / B41
Speed Rating	FDD-LTE	Downlink Rate: 10Mbps, Uplink Rate: 5Mbps
	TDD-LTE	Downlink Rate: 8.96Mbps, Uplink Rate: 3.1Mbps
Power Rating	FDD-LTE	+23dBm (Power Class3)
	TDD-LTE	+23dBm (Power Class3)
Co2 Sensor	Range	400-5000ppm
	Accuracy	30ppm±3%, Condition: (0-50℃, 0-85%RH)
	Resolution	1ppm
	Type	NDIR
Atmospheric Pressure	Range	30kpa-120kpa, Condition: (-40-75℃)
	Accuracy	±0.1kpa
	Resolution	0.01kpa
	Type	MEMS

SPECIFICATIONS

Item Numbers		Description
Temperature Sensor	Range	-30℃~+75℃
	Accuracy	±0.2℃
	Resolution	±0.1℃
	Type	MEMS
Humidity Sensor	Range	0% to 100% RH
	Accuracy	±1.5% RH
	Resolution	0.5% RH
	Type	MEMS
Waterproof Rating	Physical Body Protection	IP68
	Ingress Protection	IP65
Reliability	Electrostatic discharge immunity	Contact discharge: 6KV, Air discharge: 8KV
	Surge immunity	Differential mode: 1KV, Common mode: 2KV
	Fast Transient Burst	Power supply circuit: 2KV
Environmental Range	Operating temperature	-30℃~+75℃
	Operating humidity	5%~95%（Non-condensing）
	Storage temperature	-40℃~+85℃
Certificated CCC,CE, FCC,RoHS	Saftey	EN IEC 62368-1:2020+A11:2020
	Health	EN IEC 62311:2020
	EMC	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-52 V1.2.1(2021-11)
	Radio	ETSI EN 301 908-1 V15.2.1 (2023-01) ETSI EN 301 908-13 V13.2.1 (2022-02)
	Frequency Range	FDD Band1: 1920-1980 MHz(TX), 2110-2170 MHZ FDD Band3: 1710-1785 MHz(TX),1805-1880 MHZ FDD Band8: 880-915 MHz(TX),925-960 MHZ TDD Band40: 2300-2400 MHz(TX)(RX)
	Maximum Output Power	FDD Band1: 22.89dBm Max. FDD Band3: 23.23dBm Max. FDD Band8:24.02dBm Max. TDD Band40: 22.24dBm Max.
	Modulation	QPSK, 16QAM

Tel: +86 18616602589 / Web: http://www.hitelecom.com
Email: Justin.Li@hitelecom.cn
Add: 2nd Floor, Building 1, No. 116 Cheyang Road, Songjiang District, Shanghai