LINOVISION

IOT-S300THLCO2

Versatile Outdoor Sensor (Temperature/Humidity/CO2/Light Sensor)

The IOT-S300THLCO2 multi-function integrated sensor with louver structure is a special sensor designed for environmental monitoring during meteorological or agricultural production. The built-in core sensors are all imported devices. The instrument can continuously monitor one or more environmental parameters such as carbon dioxide gas concentration, light intensity and ambient temperature and humidity, and each parameter value is converted into MODBUS-RTU standard electrical signal and transmitted to related equipment.

Features

Integral blind box structure.
Multiple monitoring options.
Built-in high-performance microprocessor.
High sensitivity and easy installation.
Superior performance and good long-term stability.

Scope of application

Widely used in building automation
Climate and HVAC signal acquisition
Greenhouses and pharmaceutical and chemical industries

Linovision SolutionsLLC
See details on www.linovision.com
+86 (0571) 8670-8175| sales@linovision.com

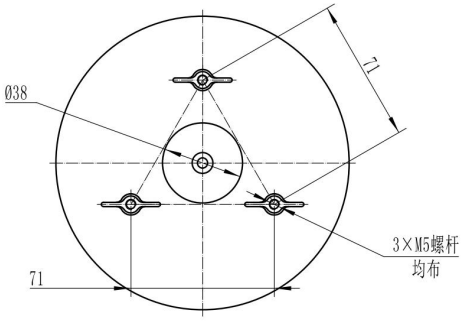
LINOVISION

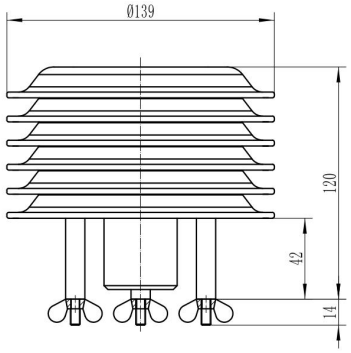
Technical Parameters

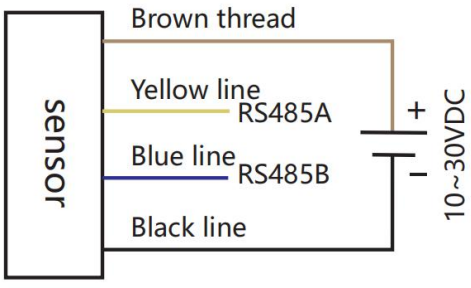
	Temperature and humidity	Light intensity	carbon dioxide
Range	Temperature: -40 ~ 80 ℃	0~65535Lux	0~2000ppm
	Humidity: 0% RH ~ 100% RH	0 ~ 200,000 Lux	0~5000ppm
Signal output	RS485 output (Modbus protocol)	RS485 output (Modbus protocol)	RS485 output (Modbus protocol)
Operating Voltage	10~30VDC	10~30VDC	10~30VDC
Precision	Temperature: ± 0.5 C (25 C)	±7%(25C)	±50ppm+3%FS(25C)
	Humidity: ± 3% RH (5% RH ~ 95% RH, 25C)		
Long-term stability	Temperature: ≤0.1FS / year	≤0.5% / year	≤30ppm / year
	Humidity: ≤0.1% RH / year		
Response time	Temperature: ＜ 15 / sec (1m / s wind speed)	0.1秒	＜ 10 / sec (1m / s wind speed)
Operating temperature	-20~60c, 0%RH~80%RH	-20 ~ 60 C, 0% RH ~ 80% RH	-20~60C, 0%RH~80%RH

	Atmospheric pressure	PM2.5/PM10
Range	0~120Kpa	0~500ug/m3,0~1000ug/m3
Power consumption	≤0.5W	0.8W
Signal output	RS485 output (Modbus protocol)	RS485 output (Modbus protocol)
Operating Voltage	10~30VDC	10~30VDC
	Atmospheric pressure	PM2.5/PM10
Precision	±1.5Kpa(25℃)	＜ ± 10% of reading (25 ℃)
Long-term stability	0.1Kpa / year	
Response time	≤1 second	≤90秒
Operating temperature	-20~60℃, 0%RH~80%RH	-20~60℃, 0%RH~80%RH
Resolution		1ug/m
Preheat time		2min

Product size and wiring method







Linovision SolutionsLLC
See details on www.linovision.com
+86 (0571) 8670-8175| sales@linovision.com