

HTA Temperature/Humidity & PM2.5/PM10 Transmitter ADTEK

Features

- Output options: up to 1 set of RS-485 Modbus RTU Communication and 1 set of Analog selection
- Baud rate: 9600, 19200, 38400, 57600, 115200 bps
- RS-485 transmission format: N81, N82, E81, O81
- RS-485 address: 1~255
- RS-485 output response time: <200ms
- Temperature and humidity / air visual compensation deviation values can be corrected through the RS-485 communication system and buttons.
- Use laser scattering principle sensors for PM2.5 and PM10
- Temperature / Humidity sensing element : CMOS sensor
- Analog output options: up to 1 set of 4~20mA or 0~10V output with a specified PM sensor (4 selections)
- LCD with 3 backlight colors to indicate concentration levels of PM2.5 or PM10, and the backlight can be factory specified.
- 3 colors of LCD backlight for corresponding spec: green, blue, orange
- Application of HVAC building environmental ventilation and air-conditioning equipment / medical institutions / library / laboratory / air-conditioned clean room / breeding farm / department store and hotel / cinema and mass rapid transit / remote real-time monitoring / parking garage / indoor air purification system, etc.



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Ordering Information

HTA

Measure Item

Range of PM2.5

Range of PM10

Analog Output

Communication Output

USB Cable

AUX. Power

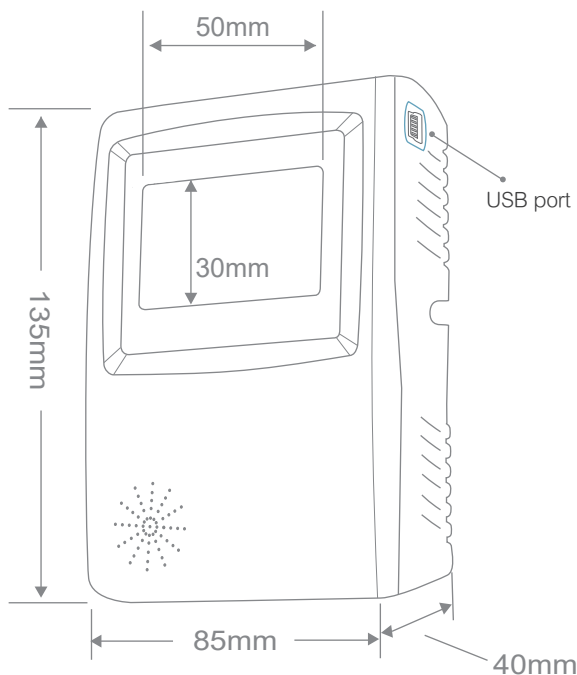
CODE	Measure Item	CODE	Range	CODE	Range	CODE	Analog Output	CODE	COMM.	CODE	Option	CODE	AUX. Power
1	PM2.5/PM10/ Temp.& Humi.	1	0~100 μg/m ³	1	0~100 μg/m ³	N	None	N	None	N	None	D24	DC24V
		3	0~300 μg/m ³	3	0~300 μg/m ³	1	4~20mA, PM2.5	M	RS-485 Modbus RTU	U	USB Cable		
		5	0~500 μg/m ³	5	0~500 μg/m ³	2	4~20mA, PM10						
		A	0~1000 μg/m ³	A	0~1000 μg/m ³	3	2~10V, PM2.5						
						4	2~10V, PM10						

Technical Specification

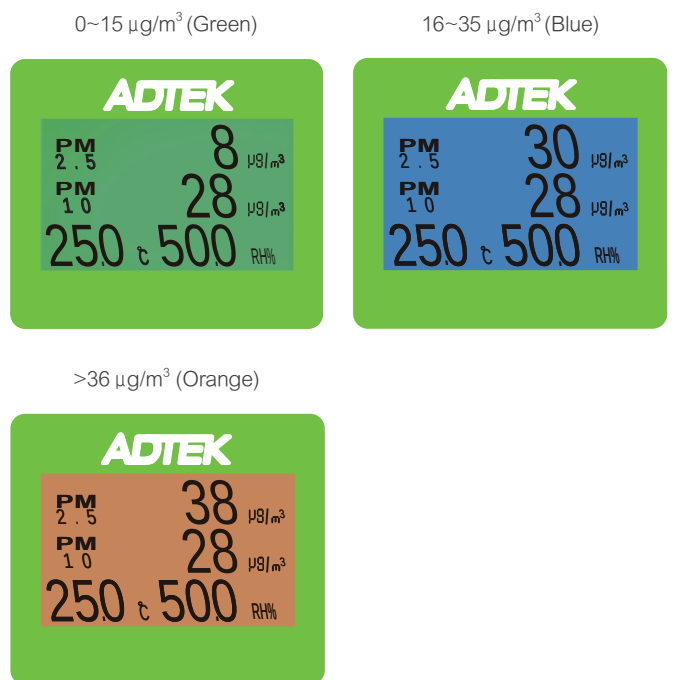
RS-485 signal output	RS-485 Modbus RTU, with communication status display (Remote real-time monitoring by PLC, DDC, PC)
RS-485 transmission format	N81 N82 O81 E81
RS-485 Baud rate	9600 or 19200 or 38400 or 57600 or 115200
RS-485 address	1~255
RS-485 response Time	<200mS
Multi-function 4 in 1 double-row polling display 3-color backlight LCD Indication	Standard: PM2.5/PM10/Temperature/Humidity
Temp. & Humi. sensing element	CMOS sensor
Temp. & Humi. sampling time	>3s
Temp. & Humi. measuring accuracy	$\pm 2\% \text{RH}$ (10~90%RH) (at 25°C) , $\pm 0.4^\circ\text{C}$ (at 25°C) (Power supply 24Vdc, operating temperature at 25°C)
PM2.5/PM10 sensor	Use laser scattering principle sensors with fan (Warm-up time: <2min, stable running time: 10min)
PM2.5/PM10 measure range	0~1000 $\mu\text{g}/\text{m}^3$
PM2.5 backlight LCD indication	Green: 0~15 $\mu\text{g}/\text{m}^3$ / Blue: 16~35 $\mu\text{g}/\text{m}^3$ / Orange: 36 $\mu\text{g}/\text{m}^3$ (3-color backlight value is programmable)
PM10 backlight LCD indication	Green: 0~65 $\mu\text{g}/\text{m}^3$ / Blue: 66~125 $\mu\text{g}/\text{m}^3$ / Orange: 126 $\mu\text{g}/\text{m}^3$ (3-color backlight value is programmable)

PM2.5 measure accuracy	±5% $\mu\text{g}/\text{m}^3$ value
Air response time	PM2.5/PM10>10s
Analog output load impedance	4~20mA(resistive load: <500 Ω)/2~10V(resistive load: >600 Ω)
Analog Output resolution	15bits
USB port	Can via this port to supply power by PC or charger. Option function.
Operating temperature and condition	Temperature: -10°C ~50°C , Humidity: 0~100%RH(Non-condensing)
Current consumption	≤DC:100mA Max
Dimensions and material	135mm(H) X 85mm(W) X 40mm(D), Housing: ABS, Panel: PC
IP degree of protection	IP20
Power supply	DC24V ±20% 100mA Max

Dimensions



Backlight Indication



Terminal Block

