

# TES 5321/TES 5322

## Air Quality Monitor

### FEATURES

- Fine particulate matter (PM2.5) measurement
- Mix gases (VOCs-Volatile organic compounds) measurement  
High sensitivity to H<sub>2</sub>, C<sub>2</sub>H<sub>5</sub>OH, C<sub>4</sub>H<sub>10</sub>, CO and CH<sub>4</sub>. (5322)
- Temperature and Humidity measurements
- Health index (0 ~ 9) detection and alarm
- Data hold and MAX/MIN with time stamp function
- Three-color LED indication air quality at good/moderate/poor
- Preset warning point of buzzer alarm, LED and alarm output
- Manual data memory and read function
- Auto data logger function (5322)
- USB Interface (5322)



+982165565901

پتروفرهان گستر جنوب

+982144584619

FGJ-NDT.IR

+989034119385

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Air Pollution Regulation	WHO				European Union	USA		Canada	Australia	Japan	South Korea	Hong Kong	China		Thailand	Taiwan	
	IT-1	IT-2	IT-3	AQG		United States	California						Class1	Class2			
PM2.5 µg/m <sup>3</sup>	Yearly average	35	25	15	10	25	12	12	-	8	15	-	35	15	35	25	15
	Daily average (24-hour)	75	50	37.5	25	-	35	-	30	25	35	-	75	35	75	50	35

## SPECIFICATIONS

Measurement Range	PM2.5 : 0 to 500 µg/m <sup>3</sup> VOCs : 1 to 50ppm Humidity : 1% to 99%R.H. Temperature : -20°C to +60°C (-4 °F to +140 °F )
Resolution	0.1 µg/m <sup>3</sup> , 1ppm, 0.1% R.H., 0.1 °C , 0.1 °F
Accuracy	PM2.5 : ±10% of reading±10 µg VOCs : ±10% of reading±1ppm Temperature : ±0.8°C , ±1.5 °F Humidity : ±3%RH (at 25°C , 30 to 80% RH). ±5%RH (at 25°C , 0 to 20% RH and 80 to 100% RH).
Sensor type	PM2.5 : Photodiode sensor. VOCs : Mix gases sensor Humidity : Precision capacitance sensor Temperature : Thermistor sensor
Response time	Humidity : 45%R.H. to 95% R.H. <= 1min 95%R.H. to 45%R.H. <= 3min Temperature : 10°C /2 sec.
Sampling rate	1 sample/second.
Data Memory Capacity	39 sets. (Direct reading from LCD display)
Data Logger Capacity	microSD CARD 4GB
Operating temperature and humidity	0°C to 60°C , below 95% R.H.
Storage temperature and humidity	-10°C to 60°C , below 70% R.H.
Power supply	Four 1.5V LR-6/AA size batteries, AC adapter
Battery life	Approx. 8 hour
Dimensions	165mm(L)×93mm(W)×75mm(T) , (6.5"L×3.7"W×3"T)
Weight	Approx. 380g (13.4oz)
Accessories	Instruction manual, Battery, CD software, Micro-USB cable, Carrying case, AC adaptor DC6V.

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