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INTERACTIVE SERVICES AGENCY

**Outdoor / Indoor Environment Sensor
Model D1017 L/N/GSM**



EAOT EN ISO 9001:2015

KEY FEATURES



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high detection
efficiency



no impact of atmospheric
conditions on detection
efficiency



competitive
price



high resistance
to vandalism



ease
of assembly



an extensive
data analyst



system customization
possibilities



Wireless sensors,
battery life -
5 years



Measurement of environmental gaseous pollutants

PM2.5	Range	0~1000 µg/m ³
	Particle size range	0.3-10µm(PM1.0, PM2.5, PM10)
	Accuracy	±15 ug/m ³ (when concentration is ≤100ug/m ³); ±15% (when concentration is >100ug/m ³)
	Response time	T90 < 45s
	Sampling method	Fan extraction
	MTTF	Continuous uninterrupted > 10000h
CO ₂	Range	0~5000 ppm
	Accuracy	±(50ppm+5% of reading value)
	Warm-up time	3min
	Response time	T90 < 120s
	Sampling method	Diffuse
	Life span	> 5 years
CH ₂ O	Range	0~6.250 mg/m ³
	Accuracy	± 0.03 mg/m ³ (when concentration is ≤ 0.2mg/m ³); %20 ± reading value (when concentration is >0.2mg/m ³)
	Warm-up time	≤ 3min
	Response time	≤ 60s
	Recovery time	≤ 60s
	Sampling method	Diffuse
	Life span	5 years (18~25°C in clean air)



Measurement of environmental gaseous pollutants

TVOC	Range	0~10 ppm
	Resolution	0.01 ppm
	Accuracy	± 0.1ppm, when the concentration is ≤1ppm; ±20% full range, when the concentration is over 1ppm;
	Warm-up time	≤ 3min
	Response time	≤ 90s
	Recovery time	≤ 90s
	Sampling method	Diffuse
	Life span	2 years (18~25°C in clean air)
O ₃	Range	0~10 ppm
	Resolution	0.01 ppm
	Accuracy	± 0.1ppm, when the concentration is ≤1ppm; ±20% full range, when the concentration is over 1ppm;
	Warm-up time	≤ 3min
	Response time	≤ 90s
	Recovery time	≤ 90s
	Sampling method	Diffuse
	Life span	2 years(18~25°C in clean air)
CO	Range	0~500 ppm
	Resolution	0.01 ppm
	Accuracy	± 10% reading value
	Warm-up time	≤ 30s
	Response time	≤ 30s
	Recovery time	≤ 30s
	Sampling method	Diffuse
	Life span	3~5 years (in air)



Measurement of environmental gaseous pollutants

NO ₂	Range	0.1~10 ppm
	Resolution	0.05ppm
	Warm-up time	≤ 3min
	Response time	≤ 120s
	Recovery time	≤ 90s
Temperature	Range	-20~65°C
	Accuracy	±0.5°C(0-65°C)
Humidity	Range	0~100%RH
	Accuracy	±3%RH

The environmental gaseous pollutant

It is installed in the selected points on a mast of thickness $\Phi 70$ and height of 2.5-3 meters.

It has a ~9AH battery and a 30W photovoltaic panel and is autonomous.

Sends the measurements every hour to a central presentation and recording system

Technical Specification



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D1017 L

frequency 868- 870 MHz EU Standard , Lora Wan
detection method: ENV sensor
weight: 6.6 Kg,
colour: White,
Case: IP68,
operating temperature for optimum battery consumption - 20 - +60o C,
maximum and minimum operating temperature - 41 - + 81o C,
Output Power: up to 14 dBm adjustable
the communication range with base station: to 500m,
power: Photovoltaic Panel rechargeable battery 9,4 AH,
battery life: 5-8 years,
Communication: Single or bidirectional communication
network: LoRaWAN™ **Model D1017L**
detection performance ~ 99%,
warranty 2 years
CE declaration

D1017 N

NB IOT BAND: B1/B3/B5/B8/B20/B28 Bands working with Vodafone
detection method: ENV sensor
weight: 6,6 Kg,
colour: White,
Case: IP68,
operating temperature for optimum battery consumption - 20 - +60o C,
maximum and minimum operating temperature - 41 - + 81o C,
power: Photovoltaic Panel rechargeable battery 9,4 AH,
battery life: 5-8 years,
Communication: Single or bidirectional communication
network: NB IOT **Model D1017N**
detection performance ~ 99%,
warranty 2 years
CE declaration

D1017 GSM 3G 4G

BAND: B1/B3/B5/B8/B20/B28 Bands
detection method: ENV sensor
weight: 6,6 Kg,
colour: White,
Case: IP68,
operating temperature for optimum battery consumption - 20 - +60o C,
maximum and minimum operating temperature - 41 - + 81o C,
power: Photovoltaic Panel rechargeable battery 9,4 AH,
battery life: 5-8 years,
Communication: Single or bidirectional communication
network: GSM 3G 4G **Model D1017 GSM 3G 4G**
detection performance ~ 99%,
warranty 2 years
CE declaration



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