

DT-2025W opaque smoke meter



Product description

DT-2025W opaque smoke meter is a portable intelligent instrument for detecting visible pollutants in the exhaust (exhaust) of compression ignition (diesel) engines. This instrument adopts advanced measuring technology and foreign advanced measuring components

Main application

The instrument is widely used in fields such as environmental protection departments, vehicle inspection stations, automobile manufacturing plants, and automobile repair shops.

Characteristics

1. Adopt "air curtain" protection technology to avoid optical system pollution;
2. Constant temperature control of the detection room to prevent moisture condensation in the exhaust gas from affecting the results;
- 3, with the function of oil temperature measurement;
- 4, with real-time measurement and free acceleration measurement functions;
5. Using Wifi wireless communication technology, the instrument is connected to operate through APP to realize the independence of instrument and display;
6. Optional Bluetooth printer for data printing;

7. Wifi adopts BluFi secure network distribution protocol, which has fast network distribution and high success rate;
8. Reserve RS485 or RS232 interface to communicate with external devices.

Technical Parameters

1. Key Parameters

Main parameter	Parameter range	Resolution ratio	Degree of accuracy
Absorptance (N)	(0 ~ 99.9) %	0.1 %	Better than $\pm 2.0\%$
photoabsorption coefficient (K)	(0 ~ 16.08) m^{-1}	0.01 m^{-1}	Better than $\pm 0.05 \text{m}^{-1}$
Oil temperature	(-20 ~ 200) $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	Better than $\pm 2.0^{\circ}\text{C}$
Oil and gas temperature	(0 ~ 150) $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	Better than $\pm 2.0^{\circ}\text{C}$
Barometric pressure	(60 ~ 120) kPa	0.1 kPa	Better than $\pm 0.5\text{kPa}$
Ambient temperature	(-40 ~ 85) $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	Better than $\pm 2.0^{\circ}\text{C}$
Effective length of optical channel	215mm		
Equivalent length of optical channel	430mm		
Working humidity	(0 ~ 95) %RH No condensation		
Working temperature	(-5 ~ 40) $^{\circ}\text{C}$		
working power supply	DC24V 6A		
Built-in lithium battery	14.8V 10AH		
Battery working time	> 4h		
Noise	< 50dB(A)		
Power consumption	Battery powered $\leq 40\text{W}$ External power supply $\leq 160\text{W}$		
Overall weight	About 4.0 Kg		
Length * width * height (mm)	460*170*220		

2.Configuration List

Serial number	Name	Specifications	Unit	Quantity	Remarks
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1	Instrument host	JF-3102	Set	1	Built-in lithium battery
2	Power adapter	24V 6A	Set	1	
3	Tablet computer	10.1inches	Set	1	Charger included
4	Power cord	/	Set	1	
5	Oil temperature gauge	/	Set	1	
6	Diesel clamp	/	Set	1	
7	Metal braided tube	/	Set	1	0.5m
8	Extension tube	/	Set	1	2m
9	bluetooth printer	/	Set	1	
10	form	/	Set	10	
11	Aluminium box	/	Set	1	
12	Instructions	/	Set	1	
13	certificate	/	Set	1	
14	guarantee card	/	Set	1	
15	packing list	/	Set	1	
16	Tachometer	/	Set	1	select to breed
17	Tachometer connecting wire	/	Set	1	select to breed

Attention

1. When using the instrument with power plugged in on site, make sure to use 220V alternating current! Avoid incorrect connection to other industrial power sources to prevent personal injury and damage to the detection unit.
2. During transportation and use, try to avoid strong vibration, collision, and the invasion of dust, rain, and snow.
3. Please use the matching 24V 6A power adapter! Avoid using power adapters of other specifications to prevent damage to the detection unit.

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