Diffusion Gas Detector

CO ppm · H2S ppm
0 · 0.0
O2 %VOL · Ex %LEL
20.93 · 0

SAFEGAS-MicMeta

MicMeta-R

## Diffusion gas detector

Product overview

MicMeta is a IECEx/ATEX/EMC certificated multi gas detector with a rating of IP68. With explosion proof grade Ex ia I Ma, Ex ia IIC T4, MicMeta can be used in coal mines. It's light weight, small size and with 2 buttons for easy use. The standard gas type is multi 4 (CO H2S O2 LEL) gases and also support hundreds of gases for optional customization. It's with wireless function so user can access to data remotely. With standard data logger, real time data and alarm events can be export to PC directly.

Product Advantage

- IP66/IP68 water & dust resistant and 1.5 meters drop resistant case, rugged and durable designs
- Compact, lightweight ,small size with back clip, ergonomic and wearable design
- Standard man down alarm ,password protection, ID identification function
- Real time value, TWA, STEL, MAX, MIN multiple numerical display
- With self-test function, which can improve safety by automatic self-test
- One press to restore factory settings
- Support firmware upgrade remotely
- With docking station to perform daily bump test and calibration (Optional)
- Wireless data transmission including Lora, Bluetooth (Optional)
- With rechargeable lithium polymer battery, extended 18-hour battery runtime
- Support PPM and mg/m3 gas unit switch by one key

Technical parameters

Working method:	Diffusion
Gas type:	O3
Principle:	Electrochemistry
Measure range:	0-10ppm,
Resolution :	0.1ppm
Response time:	≤60S (T90)
Automatically test and calibrate after power-on	Including auto-test, calibration, auto-zero, maximum value (MAX), minimum value (MIN), STEL, TWA value
Unit:	μmol/mol, ppm, mg/m3 can be switched by one key, and the concentration value is automatically converted by the system
Display:	Segment code LCD display
Calibration platform:	Modification, function testing and calibration operations can be performed on DKM-MicMeta docking station(optional)
Data Record:	100000 sets data records and 1000 sets events records
Alarm:	95dB buzzer (@30cm), vibration alarm and flashing red bars and alarm status indication on the screen, alarm latched; diagnostic alarm and battery undervoltage alarm, man down alarm, alarm setpoints for all sensors are user adjustable.
Battery:	3.7V rechargeable lithium battery, battery capacity 2300mA
Wireless transmission:	Bluetooth transmission function (optional), Lora transmission function (optional)
Working hours:	Standby time 18h, charging time <6h
Certification (EU regulations):	2004/34/UE (ATEX)
Explosion-proof grade:	IECEx: Ex ia IIC T4 Ga, Ex ia I Ma, ATEX ⟨Ex⟩II 1G Ex ia IIC T4 Ga, Ex ia I Ma
Protection grade:	IP66/IP68
Working temperature:	-20° C~55° C
Working humidity:	0-95%RH (non-condensing)
Environmental pressure	86～106Kpa
Size	113*60*32mm (length * width * height)
Weight	240g (with lithium battery)