

SP-MGT

Portable Multi Gas Detector



DESCRIPTION

MGT Multi-Gas Detector is designed to protect workers from the most common industrial hazards, including oxygen deficiency, toxic gas poisoning, and explosions. It continuously measures four key gases O₂, CO, H₂S, and combustible gas (CH₄) displaying their concentrations and raising alarms (visual, audible, and vibrating) when dangerous levels are detected. Equipped with a dual CO/H₂S sensor, MGT ensures reliable monitoring to safeguard workers in hazardous environments.

KEY FEATURE

- Small dimension & lightweight
- Rechargeable battery
- 30EA of bump tests / events / cal.
- Simultaneously detect 4 different gases
- 25 hours use by one charge for 4-6 hours (P-Type)
- 60 days use by one charge for 4-5 hours (N-Type)
- Configuration via exclusive IR Link
- Easy check & calibration via Docking Station
- Intrinsic safety

SPECIFICATION

Model	MGT
Self Test	Full function self-test upon activation Sensors, battery and circuitry - continuous
Sensor Type	O ₂ , CO and H ₂ S : Electrochemical Combustible (LEL) : IR or Pellistor
Measuring Type	Diffusion Type
Dimension	61 (W) x 114 (H) x 43 (D)mm / 2.4(W) x 4.49(H) x 1.69(D) inch
Weight	240g / 8.47oz
Operating Temperature	-20°C to +50°C / -4°F to +122°F (for O ₂) -20°C to +60°C / -4°F to +140°F (for CH ₄) -30°C to +50°C / -22°F to +122°F (for CO and H ₂ S)
Operating Humidity	5% to 95% RH (Non-condensing)
IP	IP 67
Data Saving	Event Log: 30EA Calibration Log: 30EA Bump Log: 30EA Data log Two Months or longer.
Alarm	Visual (Red flashing LEDs and LCD display), Vibrating, Audible (90 dB alarm at 10cm and buzzer)
Display	Liquid Crystal Display (LCD), Back-light
Battery	Rechargeable Li-ion power supply unit (2,000mAh)
Battery Life	IR : 60 days continuous / Pellistor : 25 hours continuous
Low Battery Alarm	20 minutes / 10 minutes / 5 minutes Expired : 5 long beeps / flashes and then Off is displayed
Charging Time	4-6 hours
Warranty	2 years
Components	Calibration Cap, Charge Cable (USB C-Type) and Adaptor

CERTIFICATION

ATEX	II 1 G Ex ia IIC T4 Ga(SP-MGT-N) II 1 G Ex da ia IIC T4 Ga (SP-MGT-P)
IECEX	Ex ia IIC T4 Ga (SP-MGT-N) Ex da ia IIC T4 Ga (SP-MGT-P)
CSA&UL	Ex ia IIC T4 Ga(SP-MGT-N) Class I, Division 1, Groups A, B, C, and/or D, T4 Class I, Zone 0, AEx ia IIC T4 Ga Ex da ia IIC T4 Ga(SP-MGT-P) Class I, Division 1, Groups A, B, C, and/or D, T4 Class I, Zone 0, AEx da ia IIC T4 Ga
INMETRO	Ex ia IIC T4 Ga (SP-MGT-N) Ex da ia IIC T4 Ga (SP-MGT-P)
PESO	Ex ia IIC T4 Ga (SP-MGT-N) Ex da ia IIC T4 Ga (SP-MGT-P)
etc.	RoHS2, EMC, RCM(ACMA&RSM), REACH, WEEE, FCC

SENSOR SPECIFICATION

Gas	Measuring Range	Low Alarm	High Alarm	Resolution
O2	0~30%Vol	19%Vol	23%Vol	0.1%Vol
CO	0~500ppm	30ppm	60ppm	1ppm
H2S	0~100ppm	10ppm	20ppm	0.1ppm
CH4	0~100%LEL	10%LEL	30%LEL	1%LEL

ACCESSORIES



IR Link Communication
Connects to the computer in order to program configuration and download data log



Vehicle Power Adaptor



7CH Multi Adaptor



Sampling Pump
(SP-Pump101)



Extension Probe
5m / 10m



Multi Cradle Charger



MGT Single Docking Station
Calibrates, bump tests, upgrades firmware, logs events, and configures settings.



MGT Multi Docking Station
Calibrates, bump tests, upgrades firmware, logs events, and configures settings for up to four devices.



MGT External Filter Adapter



MGT External Replacement Filter for MGT Adapter
(Kit of 10)