

SPECIFICATION SHEET: 5-IN-1 PERSONAL GAS MONITOR



Size & Weight	
with Standard Cartridge	Size: 64 mm x 124 mm x 29 mm Weight: 162g
with Single-gas Cartridge	Size: 64 mm x 128 mm x 29 mm Weight: 167g
with Multi-gas diffusion Cartridge	Size: 66 mm x 150 mm x 29 mm Weight: 192g
Power & battery	
Rechargeable battery:	1100 mAh Li-ion
Battery life:	18 hours at 20°C under normal usage
Charge time:	4 hours
Environmental	
Storage temperature:	30°C to 60°C
Operating temperature:	-20°C to 55°C
Charging temperature:	0°C to 45°C
Ingress protection:	IP67

Functional settings	
Fall & No-Motion Detector	Tri-axis accelerometer Tri-axis gyro Software processing Configurable sensitivity Configurable time for no-motion
SOS latch:	Pull latch to trigger SOS alert
Silent SOS:	Press and hold latch to trigger SOS alert
Low-battery:	Configurable threshold
Worker Check-In	Configurable timer (30 – 180 min) Automatic check-in when driving
Safety Alerts	
Alerts	High Gas Alert
	Low Gas Alert
	Under/Over Limit
	Time Weighted Average (TWA)
	Short-Term Exposure Limit (STEL)
Bump test and calibration notification	Bump test and calibration failure
Wireless updates	
Device configuration changes:	Yes
Device firmware upgrade OTA:	Yes
User interface	
Display:	168 by 144 pixel graphical, high contrast, liquid crystal display with front lighting
Menu system	Driven by three-button keypad
	Power button: On/off
SOS latch	Send SOS alert
Multi-language support	(EN, FR, ES, DE, IT, NL, PT)
User notification	
Lights:	LED Blinking or Continuous Green, Yellow, Red, Blue
Alarm Indicators	Audio Speaker LED lights Vibration motor
Speaker Volume:	~95 dB @ 30 cm
Voice Calling	Speakerphone and phone modes

Location Technology	
GNSS Radio:	72-channel
GPS Radio:	48-channel high sensitivity
Assisted-GPS:	Yes
GPS Accuracy:	5-metres
Location update frequency:	5 minutes (default)
Approvals & Certifications	
Approvals:	SAR, RoHS, CE, RCM
Canada & USA:	MC267256; Class I Division 1 Group A,B,C,D T4; Class I Zone 0 AEx da ia IIC T4 Ga; Ex da ia IIC T4 Ga
IECEX:	CSA 17.0005X; Ex da ia IIC T4 Ga
ATEX:	Sira 17ATEX2083X; Ex da ia IIC T4 Ga
UKCA:	CSAE 21UKEX2217X; Ex da ia IIC T4 Ga
LEL:	CSA C22.2 No.152; ISA 12.13.01
FCC ID:	XPYUBX21BE01
IC:	8595A-UBX21BE01
Contains:	FCC ID: XPY1EIQ24NN
IC:	8595A-1EIQ24NN

Gas	Sensor type	Range	Resolution
Ammonia (NH3)	Electrochemical	0–100 ppm	0.1 ppm
High-range ammonia (NH3)	Electrochemical	0–500 ppm	1 ppm
Carbon dioxide (CO2)	NDIR	0–50,000 ppm	50 ppm
Carbon monoxide (CO)	Electrochemical	0–500 ppm	1 ppm
Chlorine (Cl2)	Electrochemical	0–20 ppm	0.1 ppm
Chlorine dioxide (ClO2)	Electrochemical	0–2 ppm	0.01 ppm
Combustible-infrared (LEL-IR)	NDIR	0–100% LEL	1% LEL
Combustible MPS (LEL-MPS)	Molecular property spectrometer™	0–100% LEL	1% LEL
COSH	Electrochemical	0–500 ppm CO, 0–100 ppm H2S	1 ppm CO, 0.1 ppm H2S
High-range carbon monoxide (CO)	Electrochemical	0–2000 ppm	5 ppm
High-range hydrogen sulfide (H2S)	Electrochemical	0–500 ppm	0.5 ppm
Hydrogen cyanide (HCN)	Electrochemical	0–30 ppm	0.1 ppm
Hydrogen fluoride (HF)	Electrochemical	0–10 ppm	0.1 ppm
Hydrogen resistant carbon monoxide (CO-H)	Electrochemical	0–500 ppm	1 ppm
Hydrogen sulfide (H2S)	Electrochemical	0–100 ppm	0.1 ppm
Nitrogen dioxide (NO2)	Electrochemical	0–50 ppm	0.1 ppm
Oxygen (O2)	Pumped electrochemical	0–25% vol	0.1% vol
Ozone (O3)	Electrochemical	0–1 ppm	0.01 ppm
Photoionization (PID) ppm	PID	0–4,000 ppm	Dynamic resolution 0.1 ppm
Sulfur dioxide (SO2)	Electrochemical	0–100 ppm	0.1 ppm