

TROLEX

GasHawk Personal Gas Detector

1-to-6 gas detector with
automatic wireless charging
and extended battery life.



Mining, tunnelling, offshore, onshore,
gas, water, petroleum, agriculture,
construction, manufacturing, medical,
biotechnology, chemical, transportation,
automotive, food and beverage,
pulp and paper.



TROLEX



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>> 92% 19:16
0.0 %v/v CH4
20.9 %v/v O2
0.0 ppm CO
0.0 ppm H2S
167 DAYS

GasHawk

The world's foremost multi-gas personal detector

Everything we've learned in 60 years of serving hazardous industries goes into our products. That's why GasHawk is tough, reliable and easy to use - and delivered at a cost that allows you to give your people the best protection available at honest prices.

- Inductive charging system with no exposed contacts, which eliminates charge failure due to corrosion, build-up of dirt and dust, and failure to engage contacts
- Full data-logging and easy-download feature through our dedicated Hawkeye software allows you to demonstrate compliance
- Charging intervals are massively reduced - with up to 7 days continuous use even with infra-red sensors operating
- Multiway stack charger for space-saving desktop charging.
- Intrinsically safe battery pack can be changed-out even in the hazardous area
- Up to 6 gases monitored simultaneously
- Bright, clear illuminated display for easy viewing in varying light conditions



Charge less

GasHawk delivers up to a full week's battery life even with infra-red sensors installed. The unit employs superior engineering for operational efficiency, with its inductive wireless charging system and a hot-swap battery that can be changed out even in the hazardous area. GasHawk delivers long lasting protection so that your people can produce more and charge less.

GasHawk provides reliable accurate monitoring in the harshest conditions. IP67 rated and ATEX/IECEX and EAC approved, GasHawk is tough, rugged and built to last.

To find out how long your GasHawk will run continuously before needing to be charged contact us to discuss your preferred configuration. sales@trolex.com



**5 Way Horizontal
Charge Station
TX7002**

Available Sensor Configurations

Sensor A		Range	Type	Resolution	Repeatability	Nominal drift
O ₂	Oxygen	0 to 25% v/v	Electrochem	0.1 v/v	<0.1%	5%/2 years

Sensor B						
CO	Carbon Monoxide	0 to 500 ppm	Electrochem	0.1 ppm	<0.1 ppm	25 ppm/1 year
CO	Carbon Monoxide	0 to 2000 ppm	Electrochem	0.1 ppm	<0.1 ppm	25 ppm/1 year
CL ₂	Chlorine	0 to 10 ppm	Electrochem	0.1 ppm	<0.1 ppm	0.1 ppm/1 year
H ₂	Hydrogen	0 to 1000 ppm	Electrochem	0.1 ppm	<0.1 ppm	20 ppm/1 month
H ₂ S	Hydrogen Sulphide	0 to 100 ppm	Electrochem	0.1 ppm	<0.1 ppm	20 ppm/1 year
NO	Nitric Oxide	0 to 250 ppm	Electrochem	0.1 ppm	<0.1 ppm	5 ppm/1 month
NO ₂	Nitrogen Dioxide	0 to 20 ppm	Electrochem	0.1 ppm	<0.1 ppm	0.4 ppm/1 month
SO ₂	Sulphur Dioxide	0 to 20 ppm	Electrochem	0.1 ppm	<0.1 ppm	2 ppm/1 year
CO	Carbon Monoxide	0 to 500 ppm	Electrochem	0.1 ppm	<0.1 ppm	25 ppm/1 year
+			Dual Electrochem			
H ₂ S	Hydrogen Sulphide	0 to 500 ppm	Electrochem	0.1 ppm	<0.1 ppm	20 ppm/1 month
H ₂ S	Hydrogen Sulphide	0 to 100 ppm	Electrochem	0.1 ppm	<0.1 ppm	2ppm/1 year
+			Dual Electrochem			
SO ₂	Sulphur Dioxide	0 to 20 ppm	Electrochem	0.1 ppm	<0.1 ppm	1.2 ppm/year

Sensor C						
CO	Carbon Monoxide	0 to 500 ppm	Electrochem	0.1 ppm	<0.1 ppm	25 ppm/1 year
CO	Carbon Monoxide	0 to 2000 ppm	Electrochem	0.1 ppm	<0.1 ppm	25 ppm/1 year
CL ₂	Chlorine	0 to 10 ppm	Electrochem	0.1 ppm	<0.1 ppm	0.1 ppm/1 year
H ₂	Hydrogen	0 to 1000 ppm	Electrochem	0.1 ppm	<0.1 ppm	20 ppm/1 month
H ₂ S	Hydrogen Sulphide	0 to 100 ppm	Electrochem	0.1 ppm	<0.1 ppm	20 ppm/1 month
NO	Nitric Oxide	0 to 50 ppm	Electrochem	0.1 ppm	<0.1 ppm	5 ppm/1 month
NO ₂	Nitrogen Dioxide	0 to 20 ppm	Electrochem	0.1 ppm	<0.1 ppm	0.4 ppm/1 month
SO ₂	Sulphur Dioxide	0 to 20 ppm	Electrochem	0.1 ppm	<0.1 ppm	2 ppm/1 year

Sensor D						
CH ₄	Methane	0 to 5% v/v	Catalytic	0.1% v/v	<0.1%	0.1% v/v/1 month
CH ₄	Methane	0 to 100% LEL (4.4%)	Catalytic	0.1% v/v	<0.1%	0.1% v/v/1 month
CH ₄	Methane	0 to 100% LEL (5%)	Catalytic	0.1% v/v	<0.1%	0.1% v/v/1 month
CH ₄	Methane	0 to 5% v/v	Infra Red	0.1% v/v	+0.5% v/v	+ 1%/1 month
CH ₄	Methane	0 to 100% LEL (4.4%)	Infra Red	0.1% v/v	+0.5% v/v	+ 1%/1 month
CH ₄	Methane	0 to 100% LEL (5%)	Infra Red	0.1% v/v	+0.5% v/v	+ 1%/1 month
CH ₄	Methane	0 to 5% v/v		0.1% v/v	+0.5% v/v	+ 1%/1 month
+			Dual Infra Red			
CO ₂	Carbon Dioxide	0 to 5% v/v		0.1% v/v	+0.5% v/v	+ 1%/1 month
CH ₄	Methane	0 to 100% LEL (4.4%)		0.1% v/v	+0.5% v/v	+ 1%/1 month
+			Dual Infra Red			
CO ₂	Carbon Dioxide	0 to 5% v/v		0.1% v/v	+0.5% v/v	+ 500ppm/1 month
CH ₄	Methane	0 to 100% LEL (5%)		0.1% v/v	+0.5% v/v	+1%/1 month
+			Dual Infra Red			
CO ₂	Carbon Dioxide	0 to 5% v/v		0.1% v/v	+0.5% v/v	+ 500ppm/1 month

Technical Information

Operating temperature:	-20°C to +50°C
Storage temperature:	-20°C to +60°C
Humidity:	0 to 95% RH (non condensing)
Pressure range:	800 mBar to 1100 mBar ambient
Housing:	Moulded polymer with integral resilient over mould
Ingress protection:	IP67
Net weight:	350g
Battery:	Sealed prismatic Lithium Ion with wireless charging. Hot-swap intrinsically safe battery pack can be changed in the hazardous area
Battery run time:	Up to 168 hours with LED IR and electrochemical cells installed Up to 20 hours with catalytic and electrochemical sensors installed
Battery charge time:	6 hours with automatic charge management for continuous standby charging
Display:	52mm x 42mm high definition graphic LCD with automatic power down and LED rear illumination
Controls:	Two sealed push buttons for all field functions, profiled for operation with gloved hands
Operating temperature:	<ul style="list-style-type: none">– Flashing wide angle LED indicator with modulated indication of gas risk present– Audible alarm 95db at 300mm– Low battery warning– User selectable confidence tone interval– Power ON indicator, Green flashing LED– Calibration and service due prompt– STEL and TWA pre-set alarms
Data functions:	<ul style="list-style-type: none">– Automatic data log of sensor signals, alarm events and parameter changes; 30-64 days dependant upon configuration– Real time clock and display showing HH:MM– Language options to user specification– Peak signal retention for each gas sensor– STEL and TWA auto calculation with prescribed alarm level in accordance with EH40 standards
Pressure compensation:	Active atmosphere pressure compensation for the O ₂ , CO ₂ and Infrared CH ₄ sensors
T90 response time:	30 seconds nominal (dependant upon the gas type)
Certification:	<ul style="list-style-type: none">– GasHawk is covered by certificate numbers: CML 15ATEX2122X and IECEx CML 15.0062X.– For full certification details, please refer to the GasHawk user manual.

Dimensions

75mm wide

35mm depth
(excluding clip)



(pictured at actual size)

Order reference

GasHawk unit

Complete with: workwear clip, test gas hood and connecting tube

Product options:

TX7000

ATEX/IECEX Group I		19		ATEX/IECEX Group II		20	
No Sensor		00		No Sensor		00	
O ₂ 25% v/v		01		CO 500 ppm		01	
CL ₂ 10 ppm		02		CL ₂ 10 ppm		02	
H ₂ 1000 ppm		03		H ₂ 1000 ppm		03	
H ₂ S 100 ppm		04		H ₂ S 100 ppm		04	
NO 250 ppm		05		NO 250 ppm		05	
NO ₂ 20 ppm		06		NO ₂ 20 ppm		06	
SO ₂ 20 ppm		07		SO ₂ 20 ppm		07	
CO 500 ppm + H ₂ S 200 ppm		08		CO 2000 ppm		10	
H ₂ S 100 ppm + SO ₂ 20 ppm		09		CH ₄ 5% v/v IR		04	
CO 2000 ppm		10		CH ₄ 100% LEL (4,4%) IR		05	
				CH ₄ 100% LEL (5%) IR		06	
				CH ₄ 5% v/v + CO ₂ 5% v/v		07	
				CH ₄ 100% LEL (4,4%) + CO ₂ 5% v/v		08	
				CH ₄ 100% LEL (5%) + CO ₂ 5% v/v		09	
				CH ₄ 5% v/v		10	
				CH ₄ 100% LEL (4,4%)		11	
				CH ₄ 100% LEL (5%)		12	
No pump		00		With pump		01	

Typical sensor combinations

«	16:30
CH4	%v/v 0
O2	%v/v 20.9
H2S	ppm 0
CO	ppm 0
🔒	🔁 12 DAYS

«	16:30
CH4	%v/v 0
O2	%v/v 20.9
H2S	ppm 0
CO	ppm 0
CL2	ppm 0
🔒	🔁 12 DAYS

«	16:30
CH4	%v/v 0
O2	%v/v 20.9
CO	ppm 0
SO2	ppm 0
🔒	🔁 12 DAYS

«	16:30
🔥	%LEL 0
O2	%v/v 20.9
H2S	ppm 0
CO	ppm 0
🔒	🔁 12 DAYS

Wireless Battery Charger

Complete with universal mains power supply.
90 to 264V AC, 12V DC input.

TX7001.00	
Power Connector	
UK	01
EU	02
AUS	03
USA	04
12V Vehicle	05



5 way Horizontal Charge Station

Complete with universal mains power supply. 90 to 264V AC,
12V DC input. Multiway wireless battery charging.

TX7002.00	
Power Connector	
UK	01
EU	02
AUS	03
USA	04
12V Vehicle	05



Pre-connected charge station for simultaneous charging of up to five GasHawks. User configurable for table-top foot mounting, wall mounting, or integration into a standard 19 inch rack system.

6 way Vertical Charge Station

Complete with universal mains power supply.
90 to 264V AC, 12V DC input.

TX7003.00	
Power Connector	
UK	01
EU	02
AUS	03
USA	04
12V Vehicle	05

Pre-connected charge station for simultaneous charging of up to six GasHawks in a space saving vertical stacking, foot mounting format.



Bump Test Station

- Input ports for test gas connection
- Gas application push button for convenient and safe operation
- No electrical power required - can be used in the hazardous area
- Single or dual gas input channels

TX7004.00	
Gas Channels	
Single	01
Dual	02



Rapid and convenient gas response testing of GasHawk prior to deployment. Equally suitable for individual users or multi-user validation checks.

Universal Docking Station

- Combined bump test, calibration and charging with PC datacomms in a convenient simple to use package
- Single or dual input ports for test gas connections
- USB datacomms, datalog transfer with web server using Trolex HawkEye PC application tool
- Instrument setup from PC and cloning function
- Gas application switch for convenient and safe operation
- USB connecting lead
- Universal mains power supply. 90 to 264V AC, 12V DC
- Secure in-vehicle docking for rough terrain applications.

TX7005.00		
Power Connector		
UK	01	
EU	02	
AUS	03	
USA	04	
12V Vehicle	05	
Gas Channels		
Single	01	
Dual	02	



Accessories

Belt Holster TX7006

Complete with instrument docking clip and screws.



Protective Case TX7013

Leather carrying case for additional protection in extreme operating conditions.



Battery Pack (Additional) TX7010.19 Group I (ATEX/ IECEx) TX7010.20 Group II (ATEX/ IECEx)

Complete with protective pouch and Allen key.



Chest Harness TX7008

Complete with instrument docking clip and screws.

