GasHawk

Personal Gas Monitor







The world's foremost personal gas detector for mining

Everything we've learned in 60 years of serving the mining industry 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
- Charging intervals are massively reduced - with up to 7 days continuous use even with infra-red sensors operating
- Intrinsically safe battery pack can be changed-out even in the hazardous area

- Up to 6 gases monitored simultaneously
- Optional integrated pump for remote sampling and confined space entry applications
- Bright, clear illuminated display for easy viewing in varying light conditions
- Full data-logging and easydownload feature allows you to demonstrate compliance
- Multiway stack charger for spacesaving desktop charging

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 IECEx/ATEX M1/Ma 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









You pay 80% less than from our competitors

All consumables for GasHawk are passed on to our customers at cost price – which means on average you pay a massive 80% less than from our competitors. All replacement cells are included in this offer which will typically reduce your cost of ownership by over 50%.



Up to six gases

A wide range of toxic and flammable gases can be monitored simultaneously, and selected gases have STEL and TWA alerts. Any exceeded gas set point triggers an audible warning, multi colour LED visual and vibrating alerts to the user. Alarm set point levels can be configured to suit local working conditions.

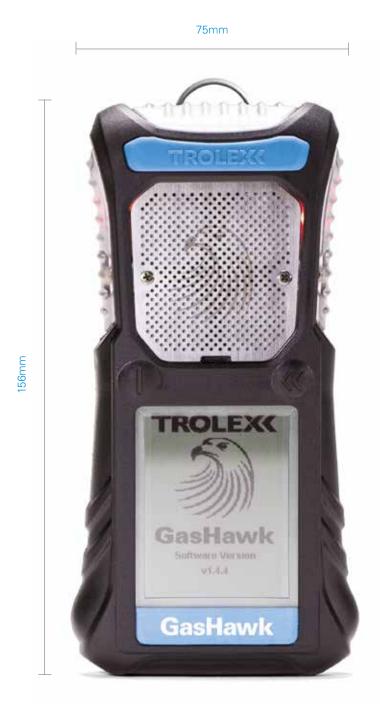
Designed for rapid response using a choice of advanced gas



SENSOR A		Range	Туре	Resolution	Repeatability	Nominal drift
O ₂	Oxygen	0 to 25% v/v	Electrochem	0.1 v/v	<0.1%	5%/2 years
SENS	OR B					
СО	Carbon Monoxide	0 to 500 ppm	Electrochem	0.1ppm	<0.1ppm	25ppm/1 year
СО	Carbon Monoxide	0 to 2000 ppm	Electrochem	0.1ppm	<0.1ppm	25ppm/1 year
CL ₂	Chlorine	0 to 10 ppm	Electrochem	0.1ppm	<0.1ppm	0.1ppm/1 year
H ₂	Hydrogen	0 to 1000 ppm	Electrochem	0.1ppm	<0.1ppm	20ppm/1month
H ₂ S	Hydrogen Sulphide	0 to 100 ppm	Electrochem	0.1ppm	<0.1ppm	20ppm /1 year
NO	Nitric Oxide	0 to 250 ppm	Electrochem	0.1ppm	<0.1ppm	5ppm/1 month
NO ₂	Nitrogen Dioxide	0 to 20 ppm	Electrochem	0.1ppm	<0.1ppm	0.4ppm/1 month
SO ₂	Sulphur Dioxide	0 to 20 ppm	Electrochem	0.1ppm	<0.1ppm	2ppm/1 year
СО	Carbon Monoxide	0 to 500 ppm		0.1ppm	<0.1ppm	25ppm/1 year
+ H ₂ S	Hydrogen Sulphide	0 to 200 ppm	Dual Electrochem			20ppm/1 month
SENS	OR C					
CO	Carbon Monoxide	0 to 500 ppm	Electrochem	0.1ppm	<0.1ppm	25ppm/1 year
 CO	Carbon Monoxide	0 to 2000ppm	Electrochem	0.1ppm	<0.1ppm	25ppm/1 year
CL ₂	Chlorine	0 to 10 ppm	Electrochem	0.1ppm	<0.1ppm	0.1ppm/1 year
H ₂	Hydrogen	0 to 1000 ppm	Electrochem	0.1pmm	<0.1ppm	20ppm/1 month
H ₂ S	Hydrogen Sulphide	0 to 100 ppm	Electrochem	0.1ppm	<0.1ppm	20ppm/1 month
NO	Nitric Oxide	0 to 50 ppm	Electrochem	0.1ppm	<0.1ppm	5ppm/1 month
NO ₂	Nitrogen Dioxide	0 to 20 ppm	Electrochem	0.1ppm	<0.1ppm	0.4ppm/1 month
SO ₂	Sulphur Dioxide	0 to 20 ppm	Electrochem	0.1ppm	<0.1ppm	2ppm/ 1 year
SENS	OR D					
CH₄	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
CH₄	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	<u>+</u> 0.5% v/v	<u>+</u> 1%/1 month
CH ₄	Methane	0 to 100% LEL (4.4%)	Infra Red	0.1% v/v	<u>+</u> 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	Dual Infra Red	0.1% v/v	+ 0.5% v/v	+ 1%/1 month
+ CO ₂	Carbon Dioxide	0 to 5% v/v	Duai IIIIIa Neu	0.1% v/v	+ 0.5% v/v	<u>+</u> 1%/1 month
CH ₄	Methane	0 to 100% LEL (4.4%)		0.1% v/v	<u>+</u> 0.5% v/v	<u>+</u> 1%/1 month
+ CO ₂	Carbon Dioxide	0 to 5% v/v	Dual Infra Red	0.1% v/v	<u>+</u> 0.5% v/v	<u>+</u> 500ppm/1 month
 СН ₄	Methane	0 to 100% LEL (5%)		0.1% v/v	<u>+</u> 0.5% v/v	<u>+</u> 1%/1 month
+ CO ₂	Carbon Dioxide	0 to 5% v/v	Dual Infra Red	0.1% <u>v</u> /v	+0.5% v/v	+ 500ppm/1 month

Technical Details

Certification:	 GasHawk is covered by certificate numbers: CML 15ATEX2122X and IECEx CML 15.0062X. For full certification details, please refer to the GasHawk user manual. 		
T90 response time:	30 seconds nominal (dependant upon the gas type)		
Pressure compensation:	Active atmosphere pressure compensation for the O2, CO2 and Infrared CH4 sensors		
	 Peak signal retention for each gas sensor STEL and TWA auto calculation with prescribed alarm level in accordance with EH40 standards 		
	Language options to user specification		
	Real time clock and display showing HH:MM		
Data functions:	 Automatic data log of sensor signals, alarm events and parameter changes; 30-64 days dependant upon configuration 		
	STEL and TWA pre-set alarms		
	Calibration and service due prompt		
	Power ON indicator, Green flashing LED		
	 Low battery warning User selectable confidence tone interval 		
	Audible alarm 95db at 300mm		
Alarms:	Flashing wide angle LED indicator with modulated indication of gas risk present		
Controls:	Two sealed push buttons for all field functions, profiled for operation with gloved hands		
Display: 	52mm x 42mm high definition graphic LCD with automatic power down and LED rear illumination		
Battery charge time:	6 hours with automatic charge management for continuous standby charging		
	Up to 20 hours with catalytic and electrochemical sensors installed		
Battery run time:	Up to 168 hours with LED IR and electrochemical cells installed		
,	Hot-swap intrinsically safe battery pack can be changed in the hazardous area		
Battery:	Sealed prismatic Lithium Ion with wireless charging.		
	375g with pump		
 Net weight:	350g		
Ingress protection:	IP67		
 Housing:	Moulded polymer with integral resilient over mould		
Pressure range:	800 mBar to 1100 mBar ambient		
 Humidity:	0 to 95% RH (non condensing)		
Storage temperature:	-20°C to +60°C		



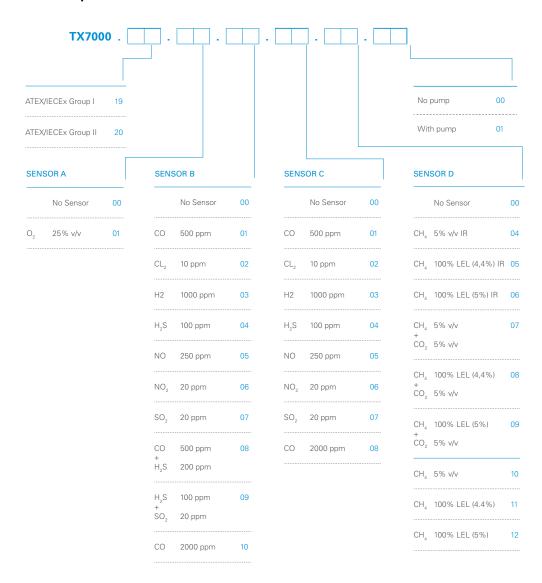


Order reference

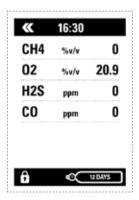
GasHawk unit

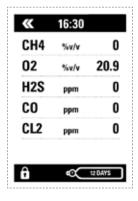
Complete with: workwear clip, test gas hood and connecting tube

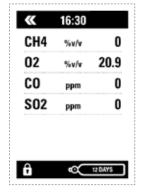
Product options:

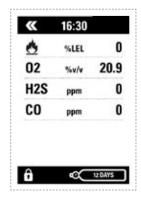


Typical sensor combinations









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.

POWER CONNECTOR				

05

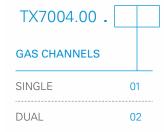
12V Vehicle



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

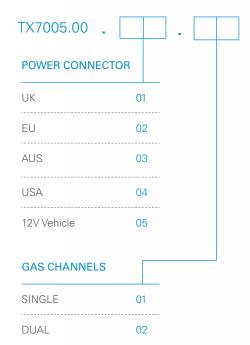




Rapid and convenient gas response testing of Gashawk prior to deployment. Equally suitable for individual users or multi-user validation checks.

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.





Accessories

Belt Holster

TX7006

Complete with instrument docking clip and screws







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



Organiser Storage Case

TX7011

Protective organiser case for general storage with compartments for:

- GasHawk instrument
- Spare battery pack
- Test gas hood with 3m flexible pipe
- Charger
- Mains power supply
- HawkEye USB application stick
- Belt holster clip
- User manual



GasHawk

Protective Case TX7013

Leather carrying case for additional protection in extreme operating conditions

Pump Hood Filters (Replacement)

P5593.87

Pack of five

Telescopic Sample Probe TX7012

With 3m flexible tube





Impact protected carrying case with shoulder strap and heavy duty zip fastener. Shock resistant foam insert with pre-formed compartments for GasHawk and a range of accessories for field use.

Please order the PUMP version of GasHawk separately: Page 10 (e.g. TX7000.xx.xx.xx.xx.xx.01)

Gashawk comes complete with:

- Test gas hood with 1m long flexible tube
- Workwear clip
- Pump hood with filter disc
- Flexible suction tube with fittings
- Five replacement pump hood filter discs
- Hydrophobic line filter
- User manual

Please order additional accessories to preference:

TX7010.19 Spare battery with protective pouch. Group I (ATEX/ IECEx)

TX7010.20 Spare battery with protective pouch. Group II (ATEX/ IECEx)

TX7012 Telescopic sample probe

TX7008 Chest harness kit



#SupportMining

Trolex's commitment to the mining industry goes back over 60 years. We believe that now is the time for suppliers to stand up and show their support for the industry where it matters most – on the bottom line.

We have committed to supplying all consumables for GasHawk at cost price – which is why you get exactly the same product from us at an average of 80% less than our competitors.

For more information on what you could save with GasHawk visit:

www.trolex.com/GasHawk

Engineered for efficiency. Built to last





