



### personal multigas monitor

The Impact Pro portable multigas monitor is able to monitor and display up to four gases simultaneously. These include flammable, oxygen and two toxic gases. Impact Pro uses high specification sensors that are continually checked using patented Heartbeat™ and Reflex™ technology to ensure safe, accurate and reliable measurements are always made.

Impact Pro accepts both disposable (OFCH) and serviceable (non OFCH) sensor cartridges which are pre-calibrated and can be replaced in under one minute so simplifying maintenance, reducing downtime and minimising cost wherever possible. Impact Pro is a compact and rugged detector designed for tough environments. Small, lightweight and unobtrusive it is ideal for use in confined spaces where entry and exit may be difficult. Impact Pro is designed to work how you want it to. Gas checks prior to entering a confined space can be carried out using a drop line, hand aspirator or via an optional built in pump that turns on and off automatically when the sampling tube is connected.

Ultra-bright alarm lights and a powerful audible alarm coupled with a periodic green flash and bleep provide user confidence that monitoring is always in operation and alarms are never missed. For noisy environments a vibrating alarm is included as standard. In addition, Impact uses a large, multi-lingual, backlit display with intuitive menu system to ease use and minimise operator training.

Impact Pro includes Safelink which allows two instruments to be connected together. The 'Attendant' at the point of entry to a confined space permanently monitors the 'Entrant' working in the confined space. Communications are continually checked and messages may be passed back and forth to ensure that regulations for working in confined spaces are observed.

Supplied complete with all necessary accessories Impact Pro is ready for use out of the box.

#### Reliable Operation

- Pre-calibrated plug-in sensor cartridge
- High specification sensors
- Stable and accurate
- Heartbeat™ and Reflex™ technology minimises unforeseen failures

#### Easy to Use

- One button on/off
- Multi-lingual, intuitive menu system
- On screen prompts guide user
- Built-in correction factors for flammable gases
- Minimal training required

#### Easy to Maintain

- Plug-in operation for all serviceable parts
- Cartridge replacement in under one minute
- Re-calibration in under two minutes when using Enforcer
- Minimised cost of ownership

#### Durable Housing

- Rugged and impact resistant
- Weatherproof
- Chemically resistant
- Built for everyday use

#### Alarm Indication

- 3 levels of instantaneous alarm, time weighted average alarms on toxic
- Periodic confidence flash and bleep
- Increasingly rapid flashing, ultra-bright alarm LEDs
- Powerful two tone audible alarm
- Vibrating alarm for noisy environments
- Safelink communications

#### User Friendly Pre-entry Check

- Peak hold function and drop line
- Hand aspiration
- Optional built-in automatic pump
- Totally flexible

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This publication is not intended to form the basis of a contract, and the company reserves the right to amend the design and specification of the instruments without notice.

**Impact Specification**

<b>Use</b>	Portable multigas monitor for the protection of personnel from up to four hazardous gases in the working environment				
<b>Technique used</b>	<b>Flammable</b>	Pellistor			
	<b>Oxygen and toxic</b>	Electrochemical			
<b>Gases</b>	<b>Range</b>	<b>Response Time (T90)</b>	<b>Repeatability</b>	<b>Impact</b>	<b>Impact Pro</b>
<i>Flammable gas</i>	0-100%LEL	< 10s	±3%lel	•	•
<i>Oxygen</i>	0-25%v/v	< 10s	±0.3%v/v	•	•
<i>Carbon monoxide</i>	0-500ppm	< 30s	±12.5ppm	•	•
<i>Hydrogen sulfide</i>	0-50ppm	< 30s	±2.5ppm	•	•
<i>Sulfur dioxide</i>	0-20ppm	< 60s	±1ppm		•
<i>Chlorine</i>	0-10ppm	< 60s	±0.5ppm		•
<i>Chlorine dioxide</i>	0-5ppm	< 60s	±0.2ppm		•
<i>Nitrogen dioxide</i>	0-20ppm	< 60s	±1ppm		•
<i>Ammonia</i>	0-100ppm	< 90s	±5ppm		•
<i>Carbon dioxide</i>	0-3% v/v	< 150s	±0.2%v/v		•
<b>Construction</b>	Impact and chemically resistant plastic, anti-static to EN50014				
<b>Dimensions</b>	49mm x 84mm x 136mm (1.9" x 3.3" x 5.3")				
<b>Weight</b>	520g (18oz) including rechargeable battery and optional pump				
<b>IP Rating</b>	Instrument IP65, cartridge IP 54 (Instrument NEMA 4X, Cartridge NEMA 4)				
<b>Operating temperature</b>	-20°C to +55°C (-4°F to +131°F)				
<b>Storage temperature</b>	Instrument	-40°C to +80°C (-40°F to +176°F)			
	Cartridge	-10°C to +30°C (-14°F to +86°F)			
<b>Humidity range</b>	20 to 90%RH continuous				
<b>Audible alarm</b>	Periodic confidence beep with alternative sounds for fault, gas alarm and warning 85dBa at 1m (90dBa at 1ft), dual tone				
<b>Visual alarm</b>	Green confidence flash with rapid red flashing for fault, gas alarm and warning indication				
<b>Battery performance</b>	NiMH rechargeable, operating life > 12 hours - (Charging time 4 hours)				
	Dry cell disposable > 20 hours				
<b>Optional sample pump</b>	0.5 litres/minute over 20m (66') using 4mm (0.17") internal diameter tubing				
	Flow fail detection switches pump off and raises fault alarm. Automatic start/stop system				
<b>Approvals</b>	Europe	CENELEC (ATEX) EEx ia d IIC T4			
	North America	UL/CSA Ex ia Class 1 Div 1 Group A, B, C, D			

**Instrument supplied complete with:**

- Vibrating alarm
- Safelink communications
- Rechargeable NiMH batteries
- Disposable dry cell battery holders
- Base station (combined charger and data interface)
- Power supply (mains)
- Flow hood
- Event/timed data-logging
- Multimedia CD c/w manual and PC configuration software
- PC link cable
- Quick start manual (multi-lingual)
- Belt clip

**Optional Accessories/Upgrades**

- Built-in pump
- Enforcer calibration accessory (OFCH only)
- Hand aspirator
- Sample tubing
- 1m (3 foot) sample probe
- Ball float c/w in-line filter
- Safelink interconnect cable (10m, 30m or 50m)
- Body harness
- Earpiece
- Vehicle mounted charger
- Webbing clip