

PRODUCT DATA



# Impact & Impact Pro

in the Zone™

## Personal Multigas Monitors

The Impact range of portable multigas monitors is able to monitor and display up to four gases simultaneously. Using high specification flammable, oxygen and patented Surecell™ toxic sensors, our unique cartridge technology ensures safe, accurate and reliable measurements are always made.

Available in two configurations, the Impact and Impact Pro accepts either disposable and/or serviceable cartridges respectively, all of which are pre-calibrated and can be replaced in under one minute, so simplifying maintenance and minimizing cost wherever possible. Compact and rugged these monitors are designed for tough working environments while being small, lightweight and unobtrusive, making them ideal for use in confined spaces where entry and exit may be difficult.

Designed to work how you want 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 (supplied as standard on the Impact Pro) 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 on the Impact Pro. A large, multi-lingual, backlit display, with intuitive menu system simplifies use and minimizes operator training.

Available for use with a wide range of accessories including the unique Enforcer calibration system and compliance friendly Safelink communication system, you can be sure that the Impact range of portable multigas monitors will be ready to protect you when most needed.

### Reliable Operation

- Pre-calibrated plug-in sensor cartridge
- High specification sensors
- Patented Surecell™ toxic sensors
- Stable and accurate

### 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 less than one minute
- Re-calibration in less than two minutes when using Enforcer
- Minimized cost of ownership

### Durable Housing

- Waterproof to IP67
- Rugged and impact 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
- Built-in automatic pump\*
- Totally flexible

\*Impact Pro model only



**Z** mda scientific

**Z** neotronics

**Z** sieger

# General Specification

<b>Use</b>	Portable multigas monitor for the protection of personnel from up to four hazardous gases in the working environment.															
<b>Available to detect<sup>f</sup></b>	Flammable, Oxygen, Carbon Monoxide, Hydrogen Sulfide, Sulfur Dioxide, Chlorine, Nitrogen Dioxide, Ammonia, Carbon Dioxide.															
<b>User interface</b>	Ultra clear, backlit, alphanumeric display. Intuitive push button menu system with user selectable operation in English, French, German, Italian, Spanish and Dutch. Other languages available upon request.															
<b>Configuration and data download</b>	Supplied configured, ready to use including black box data-logging as standard. Configurable via optional PC software and base station for control of logging functions and data download.															
<b>Construction</b>	Impact 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>	Maximum 520g (18oz) including rechargeable battery and optional pump.															
<b>IP rating</b>	Instrument IP67 (NEMA 4 & 6).															
<b>Operating temperature<sup>f</sup></b>	-20°C to +55°C (-4°F to +131°F).															
<b>Storage temperature<sup>f</sup></b>	Instrument -40°C to +80°C (-40°F to +176°F).															
<b>Humidity range<sup>f</sup></b>	Continuous 20 to 90%RH. Intermittent 0-99%RH non-condensing.															
<b>Alarms</b>	3 levels of instantaneous alarm per channel. Time weighted average alarms on toxic channels. Supplied pre-set (user configurable via optional PC software and base station).															
<b>Audible alarm</b>	Periodic confidence bleep with differing dual tone for fault, gas alarm and warning rated 85dBA at 1m (90dBA at 1ft).															
<b>Visual alarm</b>	Green confidence flash with rapid red flashing for fault, gas alarm and warning indication.															
<b>Battery performance</b>	Ni-MH rechargeable, operating life > 10 hours (Charging time 7 hours). Dry cell disposable > 17 hours. Nominal reduction of 10% when used with pump.															
<b>Optional pump</b>	Supplied as standard with Impact Pro. Typical flow rate 0.3l/min. Automatic start/stop feature with auto-test on start-up and flow fail alarm.															
<b>Approvals</b>	Europe: Ex II 2G, EEx ia d IIC T4 (ATEX). USA: Class 1, Div 1, Groups A, B, C, D (UL). Canada: Class 1, Div 1, Groups A, B, C, D (CSA). Australia (surface): Ex ia s Zone 0, I/IB, T4. Australia (mines): MDA GD 5053. DMT: DMT 02 ATEX G 001 PFG Nr. 41300502. Brazil: BR-Ex ia d IIC T4 (INMETRO).															
<b>Standard supply</b>	Each instrument is supplied complete with quick start guide, multi-lingual operating instructions on CD, dry cell battery holders and batteries, belt clip and flow adaptor. Fully configured and ready to accept either disposable or serviceable sensor cartridges the key considerations in selecting either the Impact or Impact Pro are highlighted below.															
	<table border="1"> <thead> <tr> <th></th> <th><b>Impact</b></th> <th><b>Impact Pro</b></th> </tr> </thead> <tbody> <tr> <td>Cartridge type<sup>f</sup></td> <td>Disposable only</td> <td>Disposable or Serviceable</td> </tr> <tr> <td>Integral pump/pump adaptor</td> <td>No</td> <td>Yes</td> </tr> <tr> <td>Vibrating alarm</td> <td>No</td> <td>Yes</td> </tr> <tr> <td>Safelink</td> <td>No</td> <td>Yes</td> </tr> </tbody> </table>		<b>Impact</b>	<b>Impact Pro</b>	Cartridge type <sup>f</sup>	Disposable only	Disposable or Serviceable	Integral pump/pump adaptor	No	Yes	Vibrating alarm	No	Yes	Safelink	No	Yes
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<b>Ordering information</b>																

e.g. 2302B1000 9 U E = 2302B10009UE

TYPE	CERTIFICATION	LANGUAGE
8 Impact	U USA	E English*
9 Impact Pro	Canada CSA	F French
	B Europe ATEX	G German
	Australia SAA	I Italian
	Australia Mines MDA	S Spanish
	Brazil INMETRO	D Dutch
		*Default

Disposable or serviceable sensor cartridge must be ordered separately<sup>f</sup>.

**Optional accessories**

A wide range of optional accessories are available including:  
Base station and Impact Configuration Utility (required for data download and configuration).  
Rechargeable NiMH batteries for use with base station or offline charger.  
Enforcer calibration system.  
Safelink communication system.  
Pre-entry sample probes including hand aspirator, 1m probe, tubing and ball float.  
Body harness and harness clip offering alternate mounting arrangements.  
Field case for housing of all accessories as required.

<sup>f</sup> Refer to cartridge datasheet for gas specific data.

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