



REPSS, Inc.
Instrumentation Specialists

TIGER

FIRE INVESTIGATION KIT



The ION Science Fire Investigation Kit with TIGER VOC detector has been specifically designed to provide you with all the tools for a convenient, easy-to-use solution for the detection of volatile organic compounds (VOCs) within fire and arson investigation applications.

Fire investigation teams are responsible for the examination and assessment of suspected arson-related sites, and further analysis of suspicious samples. Investigators require a solution for the fast discovery of potential arson incident accelerants, and initial crime scene VOC assessment.

Utilizing the TIGER's unique patented fence electrode technology within its photoionization detection (PID) sensor, TIGER utilizes humidity resistant and anti-contamination design and is ideal for use in harsh, high-humidity environments.

The Fire Investigation Kit Includes:

- **TIGER or TIGER LT handheld VOC detector*** for rapid, accurate response to VOCs
- **1m Flexi-probe** for versatile, practical detection of VOCs in hard-to-reach places
- **Bump test pen** for simple, quick reassurance that your detector is responding to the presence of volatiles prior to use
- **AA TIGER battery pack** for emergency power source during long shifts or when access to a charging point is not available
- **Charging cradle & travel charge adaptor** for remote charging of your instrument on-the-go
- **Exhaust barb** which can be connected to a collection bag to allow users to collect samples for further lab analysis
- **Quick start guide** for ease of use and no specialized training required
- **PTFE filters (pack of 10)** spares are provided for quick and simple TIGER maintenance
- **Rugged Carry Case** for easy, secure and robust transportation of the TIGER and accessories
- **Integrated flashlight** ideal for use within dark or dimly lit areas

In addition, the Fire Investigation kit can also be purchased with the option for 100 ppm isobutylene gas cylinder for accurate calibration and verification of instrument performance.

* Kits can also be purchased individually for use with existing TIGER instruments.



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Unrivaled Gas Detection

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TIGER LT SPECIFICATIONS

Minimum resolution*

- 0.1 ppm

Maximum reading

- 5,000 ppm

Response time

- T90 < 2 seconds

Accuracy*

- 5% display reading one digit

Linearity*

- 5% display reading one digit

Intrinsically safe approvals

- II 1G Ex ia IIC T4 Ga
- Tamb = - 15 °C ≤ Ta ≤ +45 °C (with lithium ion battery pack)
- Tamb = - 15 °C ≤ Ta ≤ +40 °C (with alkaline battery pack)
- ITS09ATEX26890X
- IECEx ITS 10.0036X
- 3193491 conforms to UL Std. 913, 61010-1 &
- Certified to CAN/CSA Std. C22.2 No. 61010-1

Battery life

- Li-ion: life up to 24 hours continual use

Lamps

- 10.6 eV Krypton PID lamp (standard.)

Data logging

- Push-to-log, 128 zones, 80,000 data points

Calibration

- Standard calibration 100 ppm isobutylene
- Custom calibration capability

Alarm

- Flashing LED and 95 dBA at 300mm (12") audible sounder
- Selectable vibrating alarm

Flow rate

- 220 ml/min in ambient conditions (with blocked flow alarm)

Temperature

- Operating: -20 to 60 °C, -4 to 140 °F (non-Intrinsically Safe)
- Humidity: 0-99% RH (non condensing)

Protection

- Designed to IP65 (heavy rain)
- 1180
- EMC tested to EN61326-1:2006, EN50270:2006 & CFR 47:2008 Class A

Weight & dimensions

- Instrument (with probe)
- Width: 91.4 x Height: 370 x Depth: 61 mm (3.59 x 14.56 x 2.4")
- Instrument weight 0.75 kg

Tiger LT Instrument	Description
PTLSRBMP-0000	Tiger LT Rechargeable Battery - Fire Investigation

TIGER SPECIFICATIONS

Minimum resolution*

- 1 ppb or 0.001 mg/m3

Maximum reading**

- 20,000 ppm or 20,000 mg/m3 (gas dependent)

Response time

- T90 < 2 seconds

Accuracy*

- 5% display reading one digit

Linearity*

- 5% display reading one digit

Intrinsically safe approvals

- II 1G Ex ia IIC T4 Ga
- Tamb = - 15 °C ≤ Ta ≤ +45 °C (with lithium ion battery pack)
- Tamb = - 15 °C ≤ Ta ≤ +45 °C (with alkaline battery pack)
- ITS09ATEX26890X
- IECEx ITS 10.0036X
- 3193491 conforms to UL Std. 913, 61010-1 &
- Certified to CAN/CSA Std. C22.2 No. 61010-1

Battery life

- Li-ion: life up to 24 hours continual use
- Alkaline: (Duracell Procell MN 1500) life up to 8.5 hours continual use

Lamps

- 10.6 eV Krypton PID lamp (standard.) 10.0 eV and 11.7 eV lamps available

Data logging

- Including date / time: 120,000 points

Communication

- Direct USB 1.1 connection

Alarm

- Flashing LED and 95 dBA at 300mm (12") audible sounder
- Selectable vibrating alarm
- Pre-programmed TWA and STEL*
- Pre-programmed with over 700 gases*

Flow rate

- 220 ml/min in ambient conditions (with blocked flow alarm)

Temperature

- Operating: -20 to 60 °C, -4 to 140 °F (non Intrinsically Safe)
- Humidity: 0-99% RH (non condensing)

Protection

- Designed to IP65 (heavy rain)
- 1180
- EMC tested to EN61326-1:2006, EN50270:2006 & CFR 47:2008 Class A

Weight & dimensions

- Instrument with probe
- Width: 340 x Height: 90 x Depth: 60 mm (13.4 x 3.6 x 2.4")
- Standard case
- 367 x 89 x 90 mm (14.45 x 3.54 x 2.36")
- Instrument weight 0.72 kg (1.56lb)
- Packed weight: 5 .5kg (12lb)

Tiger Instrument	Description
PTXSRBMP-0000	Tiger Rechargeable Battery - PPM - Fire Investigation



TIGER FIRE INVESTIGATION KIT ACCESSORIES

Fire Investigation Kit Only	Description
A-861644	Fire Investigation Kit (NO INSTRUMENT)

Accessories	Description
4/QM-01	Bump Test Pen
861642	Flexi Probe 1m
A-861220	Tiger Battery Charger Cradle
1/VS-22	Mains Adaptor with Multiple Adaptors
	NOTE. Connects to battery charger cradle A-861220
1/JAWU-01	2.1mm DC Jack- Cigar Lighter Plug Tiger Car Charger Lead
A-861240	Rechargeable Battery Assembly
A-861241	AA Battery Pack Assembly
A-861472	PTFE Filter Discs (pack of 10)
A-861482	Exhaust Barb for Tiger

Calibration	Description
44ES-248-100	100 ppm Isobutylene Cal Gas in 44L Ecosmart Cylinder
70-0.5	0.5 LPM Fixed Flow Regulator with C-10 Fitting
75-DFR	Demand Flow Regulator with C-10 Fitting

