



## T40 II RATTLER

Portable Single Gas Detector

- Robust, compact, and light
- Ultra-Fast sensor response
- Multiple sensor range options with high accuracy
- Replaceable battery with 2-years run time

The T40 II Rattler single gas detector is primarily used to keep personnel safe by detecting the presence of hydrogen sulfide (H<sub>2</sub>S) or carbon monoxide (CO), in a serviceable, maintainable, compliance instrument. The T40 II Rattler is the easiest gas detector to service while still making compliance easy and cost effective with a confidence flash.

The T40 II Rattler is robust and light, with an ingress protection of IP68 and is suitable for working in the most challenging, hazardous area environments. The industrial leading, ultra-fast T90 response time can detect gas hazards on the job in real time, saving valuable time, to ensure worker safety. To meet the needs of long-term operation, the high-performance lithium battery can operate under extreme weather conditions continuously for 2 years.

There are two visual red alarm LEDs, in addition to both an audible and vibration alarms for when the gas concentrations exceed the high, low, TWA, or STEL alarm preset values.

### INSTRUMENT CONFIGURATIONS

PART NUMBER	DESCRIPTION
T42-014211	CO, 1000 PPM, ORANGE
T42-015211	CO, 2000 PPM, ORANGE
T42-021211	H <sub>2</sub> S, 100 PPM, ORANGE
T42-022211	H <sub>2</sub> S, 200 PPM, ORANGE
T42-023211	H <sub>2</sub> S, 500 PPM, ORANGE
T42-014201	CO, 1000PPM, BLACK
T42-014221	CO, 1000PPM, YELLOW
T42-015201	CO, 2000PPM, BLACK
T42-015221	CO, 2000PPM, YELLOW
T42-021201	H <sub>2</sub> S, 100PPM, BLACK
T42-021221	H <sub>2</sub> S, 100PPM, YELLOW
T42-022201	H <sub>2</sub> S, 200PPM, BLACK
T42-022221	H <sub>2</sub> S, 200PPM, YELLOW
T42-023201	H <sub>2</sub> S, 500PPM, BLACK
T42-023221	H <sub>2</sub> S, 500PPM, YELLOW



### SPECIFICATIONS

#### INSTRUMENT WARRANTY

The T40 II single gas detector carries a three warranty from the date of shipment and is supported by Industrial Scientific Corporation (excludes battery and filter).

**DISPLAY**  
Segment LCD

**KEYPAD**  
Two buttons

**CASE MATERIALS**  
Polycarbonate with a protective rubber over-mold

**ALARMS**  
Visual (two red LEDs); Audible (95db); Vibration, TWA, STEL

**DIMENSIONS**  
82 x 60 x 27 mm (3.23" x 2.36" x 1.07")

**WEIGHT**  
85g (3oz)

**INGRESS PROTECTION**  
IP 66/68

**TEMPERATURE RANGE**  
-40 °C to 50 °C (-40 °F to 122 °F)

**HUMIDITY RANGE**  
5% to 95% non-condensing

**SENSORS**  
CO, H<sub>2</sub>S – Electrochemical sensor technology

#### SENSOR MEASURING RANGES

Gas Type	Range	Resolution	T90
CO	0-1000 ppm	1 ppm	≤10s
CO	0-2000 ppm	1 ppm	≤10s
H <sub>2</sub> S	0-100 ppm	0.1 ppm	≤10s
H <sub>2</sub> S	0-200 ppm	0.1 ppm	≤10s
H <sub>2</sub> S	0-500 ppm	0.1 ppm	≤10s

**BATTERY**  
3.6 V Primary Lithium-thionyl chloride (Li-SOCI<sub>2</sub>), 1.5AH, 2/3AA, replaceable

**RUN TIME**  
Up to 2-years run time, depending on confidence flash indicator and number of alarms per day.

#### CERTIFICATIONS

**International:**  
IECEX: Ex ia IIC T4 Ga; Ex ia I Ma

**North America:**  
UL: Class I, Division I, Groups A, B, C, D  
T4 Class I, Zone 0, AEx ia IIC T4 Ga  
CSA: Ex ia IIC T4  
Class I, Division I, Groups A, B, C, D T4

**Europe:**  
ATEX: Ex ia IIC T4 Ga; Ex ia I Ma  
CE: Directive 2014/30/EU, EN50270  
Directive 2011/65/EU and 2015/863/EU

**China:**  
China Ex: Ex ia IIC T4 Ga  
China MA: Ex ia I Ma  
China CPA