



## Specifications Sheet

# T40 II RATTLER™

Portable Single Gas Monitor

- Robust, compact, and light
- Fast sensor response
- O2 sensor is warranted for three years
- Replaceable battery with two-year runtime

The T40 II single gas monitor is primarily used to protect personnel lives by detecting the presence of hydrogen sulfide, carbon monoxide or oxygen. The T40 II instrument is robust and light, with an IP68 level of ingress protection, and is suitable for working in changing, hazardous environment. The industry-leading ultra-fast T90 response time can detect gas hazards on the job in real time to ensure worker safety, saving valuable time. To meet the needs of long-term operation, the high-performance lithium battery can operate under extreme weather conditions continuously for two years. There are two visual red alarm LEDs, in addition to both an audible and vibration alarm 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  | H2S, 100 PPM, Orange |
| T42-022211  | H2S, 200 PPM, Orange |
| T42-023211  | H2S, 500 PPM, Orange |
| T42-030211  | O2, 30%VOL, Orange   |

### OPTIONAL ACCESSORIES

| PART NUMBER | DESCRIPTION                |
|-------------|----------------------------|
| 1810-2298   | Regulator (1/2 L/min flow) |
| 1810-0859   | CYL, 25 PPM H2S            |
| 1810-2163   | CYL, 100 PPM CO            |
| 1716-0756   | Armband                    |
| 1810-9705   | Docking station, T-DOCK™   |

**INDUSTRIAL  
SCIENTIFIC**



### SPECIFICATIONS

#### INSTRUMENT WARRANTY

T40 II monitor carries a two-year warranty from the date of shipment and is supported by Industrial Scientific Corporation (excludes batteries, clips, calibration caps and filters). CO and H2S sensors are warranted for two years. O2 sensor is warranted for three years.

#### DISPLAY

Segment LCD

#### KEYPAD

Two buttons

#### CASE MATERIALS

Polycarbonate with a protective rubber over-mold / 85g (3oz)

#### ALARMS

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

#### DIMENSIONS / WEIGHT

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

#### EVENT LOGGING

Up to 100 alarm events and 30 error events

#### Gas Type

| INGRESS PROTECTION | Range      | Resolution | T90  |
|--------------------|------------|------------|------|
| IP 66/68           | 0-1000 ppm | 1 ppm      | <10s |
|                    | 0-2000 ppm | 1 ppm      | <10s |
|                    | 0-100 ppm  | 0.1 ppm    | <10s |
|                    | 0-200 ppm  | 0.1 ppm    | <10s |
| TEMPERATURE RANGE  | 0-500 ppm  | 0.1 ppm    | <10s |
|                    | 0-30 %vol  | 0.1 %vol   | <10s |

-40 °C to 50 °C (-40 °F to 122 °F)

#### HUMIDITY RANGE

5% to 95% Non-condensing

CO  
CO  
H2S  
H2S  
H2S  
O2

ATEX:  
CE:

#### BATTERY

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

#### SENSORS

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

#### CO, H2S, O2 – Electrochemical sensor technology

Up to two years of runtime, depending on operating conditions.

#### SENSOR MEASURING RANGES

CERTIFICATIONS  
Class I, Division 1, Groups A, B, C, D T4; Class I, Zone 0, AEx ia IIC T4 Ga  
Ex ia IIC T4; Class I, Division 1, Groups A, B, C, D T4  
Ex ia IIC T4 Ga; Ex ia I Ma  
Directive 2011/65/EU and 2015/863/EU  
Directive 2014/30/EU, EN50270  
Ex ia IIC T4 Ga

China: China Ex: China MA: Ex ia I Ma China CPA UL: CSA: North America:

**T-DOCK™**  
AUTOMATED GAS DETECTOR  
MANAGEMENT SYSTEM



Tel. : +91 9820734624

E-mail : safety.vcare@gmail.com