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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	H ₂ S, 100 PPM, Orange
T42-022211	H ₂ S, 200 PPM, Orange
T42-023211	H ₂ S, 500 PPM, Orange
T42-030211	O ₂ , 30%VOL, Orange

OPTIONAL ACCESSORIES

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



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

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") / 85g (3oz)

EVENT LOGGING

Up to 100 alarm events and 30 error events

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, H₂S, O₂ – 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 ₂ S	0-100 ppm	0.1 ppm	<10s
H ₂ S	0-200 ppm	0.1 ppm	<10s
H ₂ S	0-500 ppm	0.1 ppm	<10s
O ₂	0-30 %vol	0.1 %vol	<10s

BATTERY

3.6 V Primary Lithium-thionyl chloride (Li-SOCl₂), 1.5AH, 2/3AA , replaceable

RUN TIME

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

CERTIFICATIONS

International:

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

North America:

UL: Class I, Division 1, Groups A, B, C, D T4 ; Class I, Zone 0, AEx ia IIC T4 Ga
 CSA: Ex ia IIC T4 ; Class I, Division 1, Groups A, B, C, D T4

Europe:

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

China:

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



T-DOCK™
 AUTOMATED GAS DETECTOR
 MANAGEMENT SYSTEM