

TARGET

PORTABLE GAS DETECTOR WITH 6-GAS CAPABILITY

FEATURES

- Monitors up to 6 gases when utilizing CO/H₂S combo sensor
- Simultaneous display of all sensor readings
- Sensors for many toxic gases, O₂, H₂, VOCs & % LEL
- 10 pre-programmed combustible gas response options
- User programmable for: location, person, date, and time
- Datalogging/STEL/TWA standard
- Peak hold
- Push-button auto zero and calibration
- Flexible battery configurations
- Extended battery life
- Optional Internal motorized sample pump
- Designed to minimize RFI
- Rugged metal enclosure
- Dual-rate battery charger
- Calibration/recalibration dating on display
- Intrinsically safe
- CSA approval

GENERAL SPECIFICATIONS

Sensors:	Combustible: Catalytic Oxygen & Toxic: Electrochemical Broad-Range Hydrocarbons(BRH): Metallic Oxide Semiconductor (MOS)
Sampling Method:	Diffusion or internal motorized pump
Power Source:	Nickel metal hydride battery pack or optional alkaline
Battery Life:	Up to 16 hours
Dimensions:	6 x 4.5 x 1.7 inches (150 x 115 x 45 mm)
Weight:	32 ounces (900g)
Operating Temp:	5° to 122°F (-15° to 50°C) continuous
Humidity:	5-99%, non-condensing
Display:	Dot-matrix liquid crystal (LCD) with backlight, 4 lines 20 characters
Approvals:	CSA C22.2 No. 152 Class I, Div. 1, Groups A, B, C & D Exia T3C



TARGET CONFIGURATIONS

TARGET can be configured with the following sensor combinations:

- Any two electrochemical toxic or ppm H₂ sensors, including the single combination CO/H₂S sensor
- One % LEL catalytic combustible gas sensor
- One solid-state MOS sensor with standard Broad-Range (non-specific) Hydrocarbon/VOC calibration, or specially calibrated for a particular substance, such as jet fuels, organic solvents or industrial mixtures
- One electrochemical oxygen sensor

COMBUSTIBLE SENSOR

When equipped with a combustible sensor, TARGET is calibrated using methane, and it is preprogrammed to allow the user to display the % LEL of 10 common combustible gases/vapors: methane, propane, butane, pentane, hexane, hydrogen, ethane, benzene, toluene and xylene, from the internal database.

BRH/VOC SENSOR

The Broad Range Hydrocarbon (BRH) sensor is a Metal Oxide Semiconductor (MOS) which responds at ppm concentrations, non-specifically, to general hydrocarbons, organic solvents, chemicals referred to as VOCs. The standard calibration is with 100 ppm toluene, and the response is similar for many other common compounds, such as, isopropanol, methanol, styrene, xylene, acetone, etc. Special custom calibrations are available for a wide range of chemicals including jet fuels, industrial solvents, etc. Consult factory regarding custom calibrations.

ELECTROCHEMICAL SENSORS

Highly gas specific, electrochemical sensors are available with TARGET for O₂, H₂(ppm), CO, H₂S, Cl₂, O₃ and many other toxic gases.



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SENSOR SPECIFICATIONS, DISPLAY & ALARMS

Gas Sensor	Full Scale Display	Alarm 1 (5)	Alarm 2 (6)	TWA (7)	STEL (7)	LDL (8)	Life (9)
Ammonia, NH ₃	100 ppm	25 ppm	50 ppm	25 ppm	35 ppm	7 ppm	18
Arsine, AsH ₃ (1)	1.00 ppm	0.05 ppm	0.10 ppm	0.05 ppm	0.10 ppm	0.05 ppm	18
Broad-Range Hydrocarbon/VOCs (2)	200 ppm	100 ppm	150 ppm	-----	-----	20 ppm	24
Carbon monoxide, CO	500 ppm	35 ppm	200 ppm	35 ppm	200 ppm	5 ppm	24
Chlorine, Cl ₂ (3)	9.9 ppm	0.5 ppm	5.0 ppm	0.5 ppm	1.0 ppm	0.5 ppm	24
CO/H ₂ S Combo Sensor	—same as individual CO & H ₂ S sensors—					5 ppm	36
Combustible (4)	99% LEL	10% LEL	50% LEL	-----	-----	1% LEL	24
Ethylene oxide, ETO (3)	10.0 ppm	5.0 ppm	7.5 ppm	5.0 ppm	5.0 ppm	1.5 ppm	24
Hydrogen, H ₂	2000 ppm	500 ppm	1000 ppm	-----	-----	30 ppm	24
Hydrogen chloride, HCl (3)	20.0 ppm	5.0 ppm	10.0 ppm	5.0 ppm	5.0 ppm	1 ppm	18
Hydrogen cyanide, HCN	20.0 ppm	4.7 ppm	10.0 ppm	4.7 ppm	4.7 ppm	1 ppm	18
Hydrogen fluoride, HF (1)	10.0 ppm	3.0 ppm	6.0 ppm	3.0 ppm	3.0 ppm	1 ppm	18
Hydrogen sulfide, H ₂ S	200 ppm	10 ppm	20 ppm	10 ppm	15 ppm	5 ppm	24
Nitric oxide, NO	100 ppm	25 ppm	50 ppm	25 ppm	35 ppm	5 ppm	24
Nitrogen dioxide, NO ₂	30.0 ppm	3.0 ppm	5.0 ppm	3.0 ppm	5.0 ppm	1.5 ppm	24
Oxygen, O ₂	30% V	19.5%V	23.5%V	-----	-----	0.3%V	24
Ozone, O ₃ (1)	3.00 ppm	0.10 ppm	0.30 ppm	0.10 ppm	0.10 ppm	0.05 ppm	18
Sulfur dioxide, SO ₂	30.0 ppm	2.0 ppm	10.0 ppm	2.0 ppm	5.0 ppm	1 ppm	24

(1) Special Sampling Pump System required for monitoring these gases. The necessary pump modification may alter intrinsic safety approval. See price list for details.

(2) Calibrated with Toluene. Non-specific sensor responds to general hydrocarbons, solvents and VOCs. Consult factory for custom calibration options.

(3) For best performance, the sampling pump is recommended for monitoring these gases. See price list for details.

(4) Calibrated with methane, and programmed to display nine other common combustible gases/vapors.

(5) User adjustable, within fixed limits, using instrument keypad. Both oxygen alarms adjustable within fixed limits.

(6) User adjustable, within fixed limits, using PC and Trakker software.

(7) User adjustable with PC and Trakker software.

(8) Lower Detectable Limit calculated from baseline noise level, thermal drift and interference data used to derive zero point deviation estimates.

(9) Typical sensor life in months

TARGET PART NUMBERS FOR COMMON SENSOR COMBINATIONS*

Description	Part Number
TARGET T-6P, with pump, Cl ₂ , CO/H ₂ S, O ₂ , BRH & LEL sensors	04831-0409-131
TARGET T-5P, with pump, NH ₃ , CO/H ₂ S, O ₂ & LEL sensors	04831-1109-101
TARGET T-5P, with pump, CO, H ₂ S, O ₂ , BRH & LEL sensors	04831-0102-131
TARGET T-5, diffusion, with CO, H ₂ S, O ₂ , BRH & LEL sensors	04830-0102-131
TARGET T-4P, with pump, CO, H ₂ S, O ₂ & LEL sensors	04831-0102-101
TARGET T-4, diffusion, CO, H ₂ S, O ₂ & LEL sensors	04830-0102-101
TARGET T-3P, with pump, CO, O ₂ & LEL sensors	04831-0100-101
TARGET T-3, diffusion, with CO, O ₂ & LEL sensors	04830-0100-101
TARGET T-3P, with pump, H ₂ S, O ₂ & LEL sensors	04831-0002-101
TARGET T-3, diffusion, with H ₂ S, O ₂ & LEL sensors	04830-0002-101
TARGET T-3P, with pump, O ₂ , BRH & LEL sensors	04831-0000-131
TARGET T-3, diffusion, with O ₂ , BRH & LEL sensors	04830-0000-131

*See Price List to determine Part Numbers for other toxic gas sensor combinations:

TARGET, diffusion, without sensors	04830-XXXX-XXX
TARGET, with standard pump, without sensors	04831-XXXX-XXX
TARGET, with special sampling system, without sensors	04838-XXXX-XXX

INSTRUMENT ACCESSORIES

Description	Part Number
Protective instrument case	04833-000
Computer cable	04833-001
Software Trakker	04833-005
Alkaline battery holder	04833-003
Charger cable, 12 Vdc	66014-003
Economy black transit case with lining	73083-007
See Price List for Calibration Gases & Equipment.	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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