

# TracXP™

INDUSTRIAL GAS SOLUTIONS

by Macurco



## **WATER / WASTEWATER TREATMENT GUIDE**

**This application guide helps engineers, contractors, installers and integrators provide suitable gas detection systems for water and wastewater treatment facilities.**

This publication is intended to serve as a guideline for the use of the Macurco products. It is not to be considered all-inclusive, nor is it intended to replace the policy and procedures for any facility. If there are any doubts about the applicability of the equipment to your situation, consult an industrial hygienist or call Macurco at 1-877-367-7891.

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# WHY UTILIZE A GAS DETECTION SYSTEM?

## SAFETY

Safety at a water / wastewater treatment plant is imperative for the personnel operating these facilities. **Continuous monitoring within hazardous environments provides pre-entry confirmation for safe entry conditions. Personal monitoring ensures worker safety as they move through a potentially hazardous environment of changing conditions.**



## RISK MITIGATION

There can be highly corrosive gases in a water / wastewater treatment plant putting not only your people but buildings / equipment at risk. **Having a gas detection system in place can help lessen the effects of corrosion on your equipment through notification of gas presence and providing ventilation control.**



## COMPLIANCE

Not only do you need to keep your personnel and buildings / equipment safe, but gas detection is regulated by code. **Fixed gas detection systems provide continuous monitoring ensuring compliance with Federal and Local regulations.**





## INDUSTRY OVERVIEW

Water / Wastewater treatment facilities take disturbed or unhealthy water and make it environmentally safe. This water which can contain chemicals, oils and human waste, endures a process of treatment and purification which utilizes chemicals and toxins that can become a potential threat to personnel at the facility or the facility itself.

Oxygen deficiency, toxic and combustible gases are potential by-products of the Water and Wastewater treatment processes. Throughout these facilities you will find enclosed spaces where these gases may accumulate. Continuous monitoring of gas hazards is the most efficient method of protecting personnel and equipment.

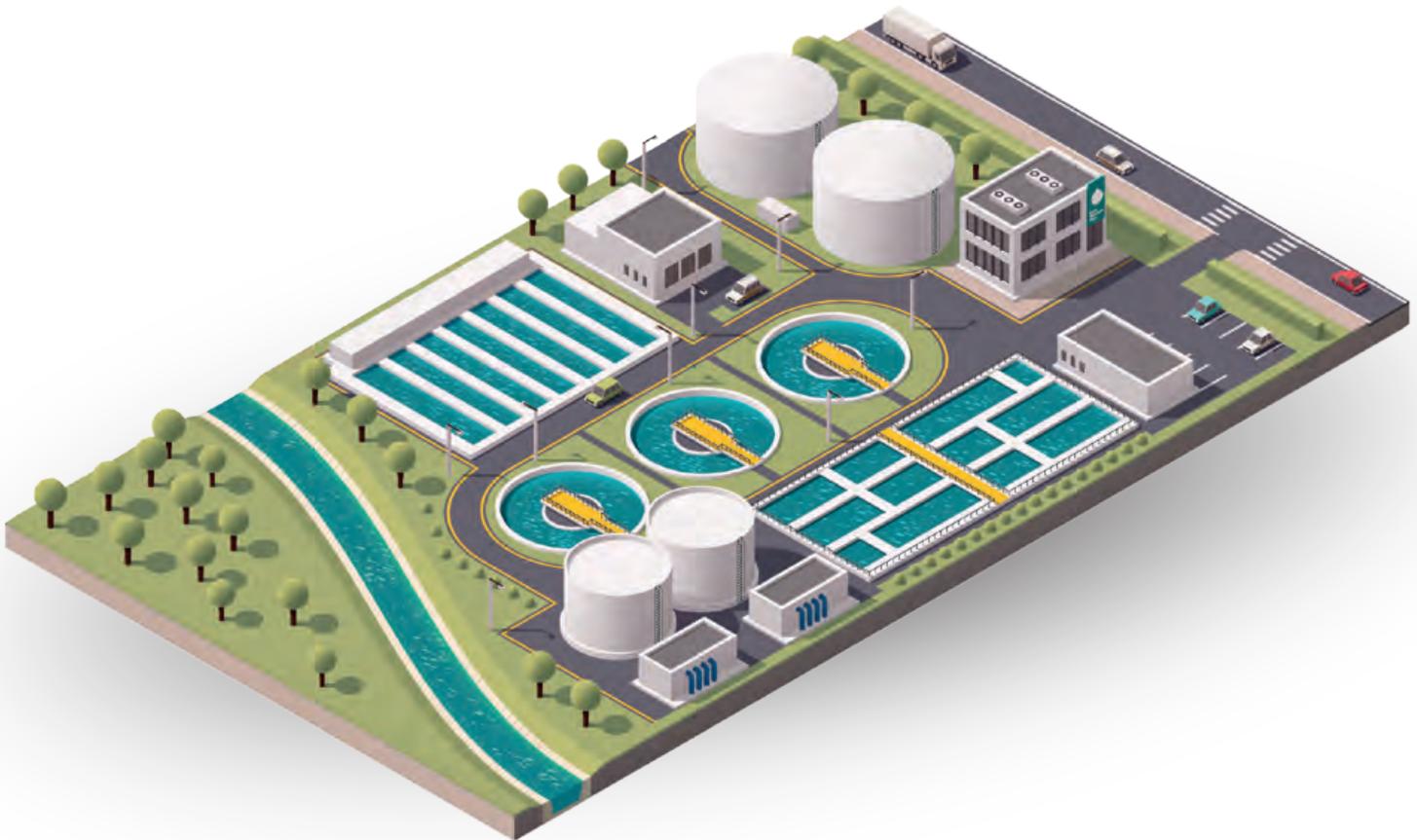
## TYPES OF GASES FOUND

Common gas hazards found in these plants are **combustible gases** such as Methane (LEL), **oxygen deficiency** and **toxic gases**. Your local jurisdiction or your on-site safety personnel can recommend what to monitor for at these locations.

**Typical Gases:** Combustible Gases (LEL), Oxygen Deficiency, Carbon Monoxide, Hydrogen Sulfide, Chlorine, Sulfur Dioxide, Ammonia and others.

## CONNECTIVITY OR INTEGRATION

With expansive connection options, our products can tie into your **Building Automation System (BAS)**, **alarm system** or tie directly into our **controllers**. The detection of these harmful gases coincides with the alarm system which are vital notifications for anyone working on-site. Telemetry for fence line or remote location monitoring in real-time is also available providing a cost-savings for your facility.



### Gas can be found in Wastewater Treatment Plants in or around:

- Belt press
- Drum thickeners
- Centrifuges
- Digesters
- Gravity belt thickeners
- Sludge storage facilities
- Wet wells
- Dry wells
- Bar screen areas (influent)
- Cogen facilities where biogas is used to produce power
- Chlorinator rooms

# TracXP INDUSTRIAL GAS MONITORS

TracXP is a part of Macurco Gas Detection, a company that has been providing gas detection solutions for 50 years. The TracXP line addresses special hazard applications with a comprehensive line of wired and wireless gas detection solutions to meet your most challenging applications.

## Fixed Monitoring

- Certified for Class 1, Div 1 or Div 2
- Vivid QVGA backlit color TFT display
- Displays gas values, units of measurement, trend graphs and alarm levels
- LED alarm status indication
- Dual sensor capable
- Supports remote sensor applications
- Standard Ethernet port with web server
- Four configurable 5A relays (Optional)
- Modbus® RS-485 output (Optional)



## Wireless Monitoring

- Robust 900 MHz or 2.4 GHz radios
- Operates on "D" lithium battery (Std.)
- Optional 12-24V DC power board
- 4-20 mA input option
- Dual sensor capable w/ integral & remote sensor options
- Magnetic mount option
- Class 1, Div. 2 standard
- Five LED indication (3) alarms (2) communication Status
- Two password levels for security
- Multiple antenna options



## AimSafety PORTABLE GAS MONITORS

AimSafety by Macurco blends 50-years of gas detection innovation and development into new, advanced gas monitor solutions that help organizations protect workers and the community, and increase safety, compliance and revenue.

### PM100 (Single Gas CO, H2S, O2, NH3, SO2, NO2, or H2)

- Visible calibration status
- Maintenance-free
- Operates continuously for two years
- Single button operation
- Event logging
- Rugged, high visual housing
- Easy-to-read LCD display
- IP67 dust tight & water resistant
- 30-Day end-of-life warning & notification
- PM100 Bump/Calibration Station available for PM100 CO, H2S, and O2 models



### PM400 (O2, LEL, CO and H2S Four Gas)

- Easy-to-read LCD display
- Single button operation
- Rugged, high visual housing
- IP67 dust tight & water resistant
- 60-Day continuous runtime (IR version)
- IR sensor is immune to poisoning
- IR sensor use in inert (low O2) environments
- PM400 Bump/Calibration Station available



# MACURCO

GAS DETECTION

The Macurco product line offers equipment for industrial, commercial, and residential applications. Headquartered in Sioux Falls, South Dakota, Macurco strives to provide the highest quality detection, safety and security solutions to customers worldwide. Whether you are looking for monitoring specific gases in potentially hazardous environments, personal safety, building automation or HVAC system, or gas detection for a security system, Macurco has a gas detector to meet your needs.



**GAS DETECTION IS ALL WE DO, AND WE DO IT BEST.**

Visit [www.macurco.com](http://www.macurco.com) for additional product information and training.



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