

# TANGO™ TX1

Portable gas detector with DualSense™ Technology



**Dualsense™ technology significantly increases worker safety, regardless of bump test frequency.**

By wearing the Tango™ TX1 Portable gas detector, your workers will be the safest single gas monitor users in the world. A 2-year runtime and patent pending DualSense™ Technology increases worker safety, regardless of bump test frequency, while reducing overall costs.

- **Significantly increases worker safety** - DualSense Technology ensures that regardless of your current bump test policy, you will be significantly safer with the Tango than with any other single gas instrument on the market today. \*
- **Longer battery life** - Operates continuously in an “always-on” mode for two years. After the battery can no longer support instrument life, it can be replaced for another two years of continuous operation.

- **Louder instrument alarm** - Alarms at 100dB at 10 centimeters making it twice the volume of Industrial Scientific’s GasBadge units and louder than any single gas instrument on the market. Alarm volume can be increased by about 10dB for higher-noise environments with the addition of the optional AlarmAmp™

The Tango incorporates revolutionary patent pending DualSense™ Technology, which was developed to address one of the biggest challenges facing single gas instrument users - bump testing instruments to ensure they are properly detecting gas and alarming. DualSense Technology includes two of the same type sensor for detection of a single gas. The two sensor readings are processed through a proprietary algorithm and displayed as a single reading to the user.

## KEY FEATURES

- DualSense® Technology increases worker safety by using two sensors to detect the same gas
- Guaranteed for Life™ with replaceable sensors and batteries that extends the life of the instrument
- Optional AlarmAmp™ increases audible alarms to 110dB

### SENSOR MEASURING RANGES:

|                              |  |
|------------------------------|--|
| Carbon Monoxide (CO):        | 0 to 1,000 ppm in 1 ppm increments     |
| Carbon Monoxide (CO/H2 low): | 0 to 1,000 ppm in 1 ppm increments     |
| Hydrogen Sulfide (H2S):      | 0.0 to 500.0 ppm in 0.1 ppm increments |
| Nitrogen Dioxide (NO2):      | 0.0 to 150.0 ppm in 0.1 ppm increments |
| Sulfur Dioxide (SO2):        | 0.0 to 150.0 ppm in 0.1 ppm increments |



## TANGO TX-1

**SPECIFICATIONS** Specifications subject to change without notice

|                           |  |                       |   |
|---------------------------|--|-----------------------|---|
| <b>Display:</b>           | Segment liquid crystal display (LCD)   | <b>Sensors:</b>       | CO, CO/H <sub>2</sub> , H <sub>2</sub> S, NO <sub>2</sub> , SO <sub>2</sub> – Electrochemical sensor technology   |
| <b>Keypad:</b>            | Two buttons  | <b>Battery:</b>       | 3.6 V Primary lithium-thionyl chloride (Li-SOCl <sub>2</sub> ); 1.5AH, 2/3AA; replaceable; non rechargeable; always on; up to 2-year run time depending on operating conditions   |
| <b>Case Materials:</b>    | Case top: Polycarbonate with a protective rubber overmold<br>Case bottom: Conductive polycarbonate   | <b>Data Logging:</b>  | 3 months at 10-second intervals   |
| <b>Alarms:</b>            | Three strobe-emitting visual alarm LEDs (two red; one blue);<br>100 decibel (dB) audible alarm at a distance of 10 cm (3.94 in); Vibration alarm | <b>Event Logging:</b> | 60 alarm events   |
| <b>Dimensions:</b>        | 99 x 51 x 35 mm (3.9 x 2.0 x 1.4 in)   | <b>Warranty:</b>      | Guaranteed for Life™. Warranted for as long as the instrument is supported by Industrial Scientific Corporation (excludes sensors, batteries, and filters). CO and H <sub>2</sub> S sensors are warranted for three years. All other sensors are warranted for two years. |
| <b>Weight:</b>            | 126.0 g (4.4 oz)   |                       |   |
| <b>Temperature Range:</b> | -40 °C to 50 °C (-40 °F to 122 °F) †   |                       |   |
| <b>Humidity Range:</b>    | 15%-95% Non-condensing (continuous)  |                       |   |

**CERTIFICATIONS**

|   |  |
|---|--|
| <b>INGRESS PROTECTION:</b>                | IP66; IP67   |
| <b>-40 °C to 50 °C (-40 °F to 122 °F)</b> |  |
| <b>ATEX:</b>                              | Ex ia I Ma; Ex ia IIC T4 Ga; Equipment Group and Category: I M1 and II 1G          |
| <b>CSA :</b>                              | Class I, Groups A B C D T4; Ex ia IIC T4   |
| <b>IECEX:</b>                             | Ex ia I Ma; Ex ia IIC T4 Ga  |
| <b>UL (C-US):</b>                         | Class I, Groups A B C D T4; Class II, Groups E F G; Class I, Zone 0, AEx ia IIC T4 |
| <b>INMETRO:</b>                           | Ex ia I Ma; Ex ia IIC T4 Ga  |
| <b>-20 °C to 50 °C (-4 °F to 122 °F)</b>  |  |
| <b>China Ex:</b>                          | Ex ia IIC T4 Ga  |
| <b>CMA:</b>                               | Ex ia I Ma; H <sub>2</sub> S, CO   |
| <b>KC:</b>                                | Ex ia IIC T4   |
| <b>EAC:</b>                               | PO Ex ia I X; 0 Ex iX IIC T4 X   |



**t** +61 8 6108 0000

**e** [info@gastech.com](mailto:info@gastech.com)

**w** [gastech.com](http://gastech.com)

**HEAD OFFICE**  
24 Baretta Road  
Wangara WA 6065  
Phone: +61 8 6108 0000

**SYDNEY OFFICE**  
21/25 Narabang Way  
Belrose NSW 2085  
Phone: +61 2 9451 0054

**BRISBANE OFFICE**  
PO Box 349  
Cannon Hill Qld 4170  
Phone: +61 7 3160 0901