

By wearing the Tango™ TX1, workers will be the safest single gas monitor users in the world. A 3-year runtime and patent pending DualSense™ Technology increases worker safety, regardless of bump test frequency, while reducing overall costs. Let the Tango show you why two is better than one.

Common Challenges

Scenario 1:

Instrument battery life is not long enough.

Examples:

- We have to pay a service company to change our instrument's batteries.
- With a battery life of only one or two years, we have to replace our instruments too frequently.
- When batteries are being replaced in our instruments, sometimes our workers go out into the field and conduct work without monitors.

Impact: When batteries have a short lifespan, it can be very costly to replace them and/or replace the instruments completely. Further, workers' safety is compromised when they have to go into the field without a monitor because the battery is being changed in the instrument that they would otherwise be using.

Solution: The Tango operates continuously in an always-on mode for three years. After the battery can no longer support instrument life, it can be replaced for another three years of continuous operation. The three-year runtime eliminates the costs of instrument replacement and instrument downtime is reduced.

Scenario 2:

It is difficult to bump test instruments daily.

Examples:

- We have hundreds of instruments and only a few docking stations, making daily bump testing nearly impossible.
- Our instruments are scattered across the facility, so it is difficult to gather them up each day and bump test them.
- We can't have our operators waiting for instruments each day.

Impact: If an instrument isn't bump tested, it may not properly function when put into use and thereby jeopardize worker safety. If an instrument is bump tested daily, the user will be significantly safer, but it becomes very costly and time consuming.

Solution: 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.*

*Based on field data from over 2 million bump tests and 100,000 unique sensors.

Scenario 3:

Instrument alarms cannot be easily heard by workers.

Examples:

- We need an instrument with a louder alarm that can be heard in our high-noise facility.
- Our employees spend too much time looking at the instrument's display to see if it is in alarm because they cannot hear it.
- We had to reposition the instrument closer to the user's ear to be able to hear it in alarm.

Impact: Without a loud audible alarm, employees might not hear it and thus, are at risk of exposure to harmful gases. Additionally, productivity lacks when workers spend time checking the instrument's display to be sure it isn't in alarm.

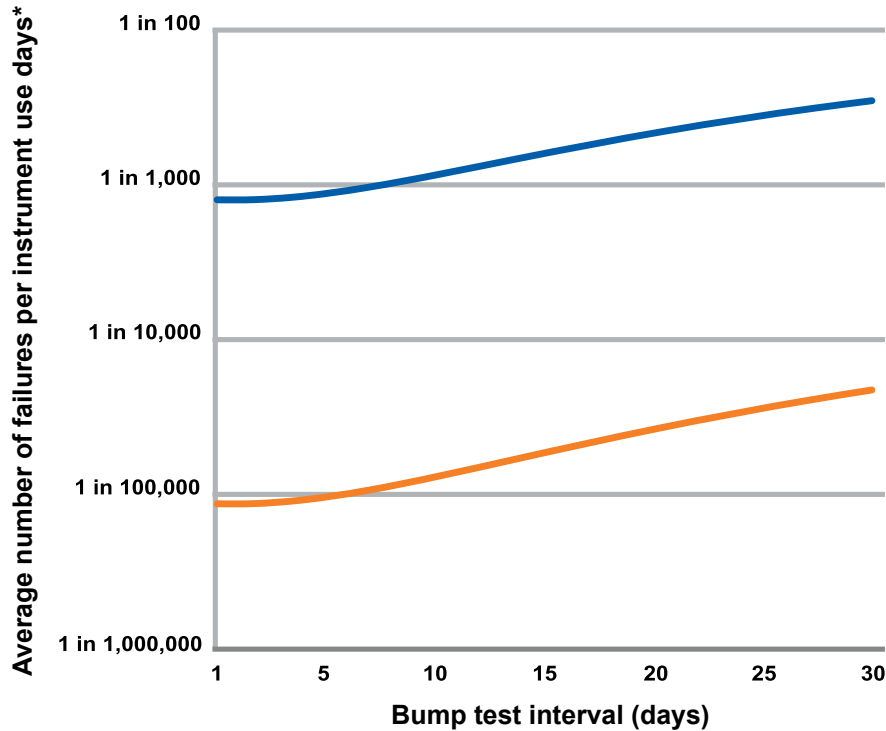
Solution: The Tango TX1 alarms at 100dB at 10cm making it twice the volume of the GasBadge units and louder than any single gas instrument on the market. Alarm volume can be increased by about 10dB for higher-noise environments with the addition of the optional AlarmAmp™.

Comparison Chart

Instrument	3-Year Warranty*	3-Year, Always on, Replaceable Battery	DualSense Technology	iNet®
Tango TX1	✓	✓	✓	✓
BW GAC	✗	✗	✗	✗
MSA Altair Pro	✗	✗	✗	✗
Sperian ToxiPro	✗	✗	✗	✗
Drager Pac 7000	✓	✗	✗	✗
RKI SC-01	✗	✗	✗	✗
GFG Micro IV	✓	✗	✗	✗

*3-year warranty for H₂S and CO;
2-year warranty for NO₂ and SO₂

DualSense Technology Increases Gas Detector Reliability



When bump testing every 30 days, 1 instrument failure is likely for every 286 instrument use days*.

When bump testing every 30 days, 1 instrument failure is likely for every 21,320 instrument use days*.

Instruments without DualSense Technology

Instruments with DualSense Technology

*Instrument use days equals total instruments in use multiplied by the number of days of use. E.g. 100 instruments used 7 days equals 700 use days.

New Bump Test Recommendation

Instruments without DualSense Technology: Based on the data in the chart, Industrial Scientific recommends that a bump (functional) test be performed prior to each day's use for all instruments without DualSense Technology. If conditions do not permit daily testing, bump tests may be done less frequently based on instrument use, exposure to gas, and environmental conditions.

The frequency of testing of instruments without DualSense Technology is best determined by company policy or local regulatory agencies.

Instruments with DualSense Technology: Regardless of bump test frequency (from daily to monthly), Industrial Scientific's instruments with DualSense Technology are safer than traditional instruments without the technology. The frequency of bump testing for instruments with DualSense Technology is best determined by company policy or local agencies based upon regulatory, environmental and other company-specific factors.

These conclusions and recommendations are based on field data, safe work procedures, industry best practices and regulatory standards to ensure worker safety.



TANGO TX1
Ordering Information



PART NUMBER	DESCRIPTION
INSTRUMENT CONFIGURATIONS	
TX1-1	Tango TX1, CO
TX1-2	Tango TX1, H ₂ S
TX1-4	Tango TX1, NO ₂
TX1-5	Tango TX1, SO ₂

PART NUMBER	DESCRIPTION
ACCESSORIES	
18109201	iNet DS docking station for Tango*
17154367	Replacement battery
18109171	Soft nylon case, Black
18109239	Soft nylon case, Orange
18109218	Dust barrier kit, 5 pack
18109230	Water barrier kit, 5 pack
17120908	Belt clip
17154915	AlarmAmp™
17154916	Black faceplate
17154917	Green faceplate
17154918	Yellow faceplate
17154919	Blue faceplate
17154920	White faceplate

*Access to data from the iNet DS docking station requires a subscription to iNet or iNet InSite.

For higher-noise environments, the Tango's alarm volume, typically 100dB at 10 cm, can be increased nearly 10dB with the addition of the optional patent pending AlarmAmp™. The Tango's alarm is louder than that of any other single gas instrument on the market.

