



TANGCO™
UNIVERSITY
TANGONOMICS

**INDUSTRIAL
SCIENTIFIC**

www.indsci.com

Property of



INDUSTRIAL
SCIENTIFIC

www.indsci.com



- First-ever single gas monitor that uses two sensors to detect the same gas
- Patent pending DualSense™ Technology makes users of the Tango 85 times safer
- Three years of continuous battery runtime



1 + 1 = 85 ???

GLOSSARY OF TERMS	
Tangonomics	The study of the Tango™ TX1 single gas monitor
Tango TX1	The world's first single gas monitor with two identical sensors that detect the same gas, making users 85 times safer
DualSense Technology	A patent pending sensor technology, found only in the Tango, that uses two identical sensors to detect a single gas, significantly increasing worker safety regardless of bump test frequency

Tango Q&As

✓ According to the Law of Tangonomics, what is the sum of 1+1?

85! One sensor plus another of the same kind sensor makes workers 85 times safer than they would be using a typical single gas monitor, regardless of bump test frequency.

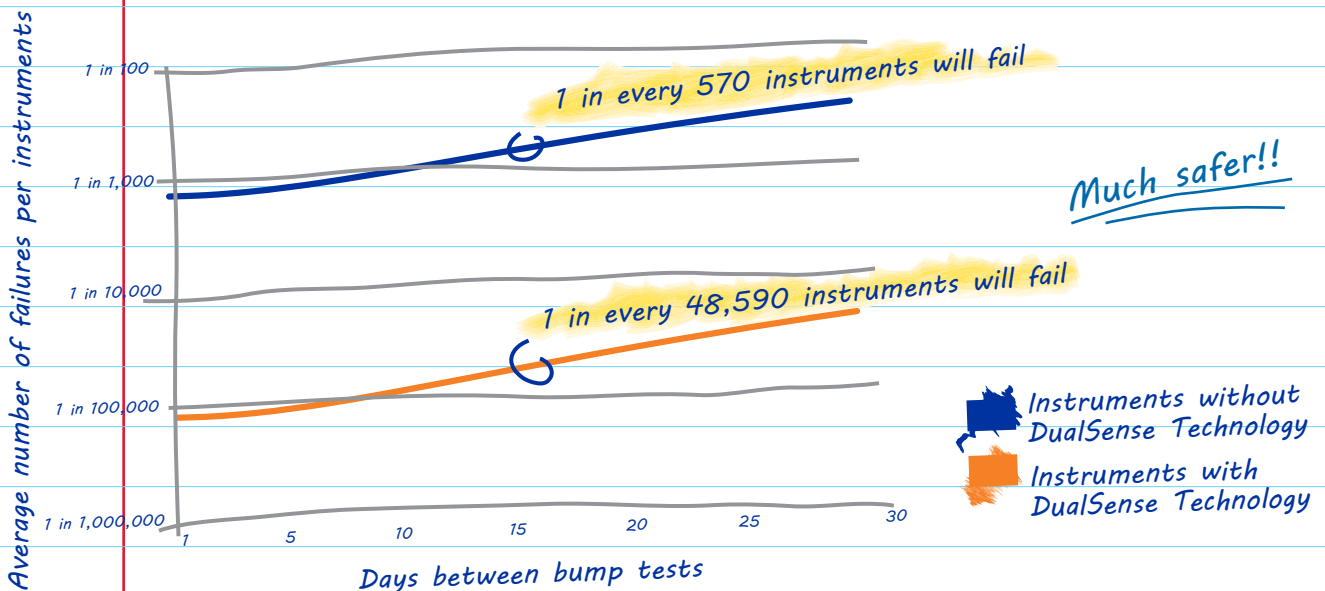
✓ What challenge is solved by the Tango with DualSense Technology?

The inability to perform daily bump tests to ensure the monitor is working properly and will keep workers safe.

✓ How does the Tango reduce ownership costs?

A replaceable three-year battery, reduced bump test frequency and replaceable low-cost sensors all lead to reduced costs.

✓ How much less likely is it that an instrument with DualSense Technology will fail versus an instrument without DualSense Technology?



TANGO ACCESSORIES



DSX™
Docking
Station

Belt clip



Replacement
battery



Dust
Barrier



Cases



Water
Barrier



Alarm
Amp



Nameplates

ORDERING INFORMATION

PART NO.	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
TX1-G	Tango TX1, CO/H ₂ low

ACCESSORIES

18109330-ABC-ABC	DSX™ Docking Station for Tango™ TX1 A – DSX Mode: 0 = DSX Standalone 1 = DSXi Cloud-connected 2 = DSX-L Local Server B – Number of Gas Inlet Ports: 3 = 3 Ports 6 = 6 Ports C – Power Cord Type: 0 = None, 1 = North America, 2 = EU, 3 = AUS, 4 = UK
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
18109238	CalCup and tubing kit
17120908	Belt clip
17154915-0	AlarmAmp™, Black
17154915-1	AlarmAmp™, Safety Orange
17154916	Black nameplate
17154917	Green nameplate
17154918	Yellow nameplate
17154919	Blue nameplate
17154920	White nameplate

Small size!



NOTES

For more information, go to www.indsci.com/tangonomics and download the DualSense Technology white paper!

SPECIFICATIONS

INSTRUMENT WARRANTY:

Three year warranty which does not include battery, sensors and filters.
CO and H₂S sensors are warranted for 3 years from the initial purchase date.
All other sensors are warranted for 2 years from the initial purchase date.

DISPLAY:

Segment liquid crystal display (LCD)

KEYPAD:

Two buttons

CASE MATERIALS:

Case top: Polycarbonate with a protective rubber overmold; Case bottom: Conductive polycarbonate

ALARMS:

Three strobe-emitting visual alarm LEDs (two red; one blue);
100 decibel (dB) audible alarm at a distance of 10 cm (3.94"); Vibration alarm

DIMENSIONS:

99 x 51 x 35 mm (3.9" x 2.0" x 1.4")

WEIGHT:

126.0 g (4.4 oz.)

TEMPERATURE RANGE:

-40°C to +50°C (-40°F to +122°F)†

HUMIDITY RANGE:

15%-95% Non-condensing (continuous)

SENSORS:

CO, CO/H₂, H₂S, NO₂, SO₂ - Electrochemical sensor technology

SENSOR MEASURING RANGES:

Carbon Monoxide (CO):	0 to 1,000 ppm in 1 ppm increments
Carbon Monoxide (CO/H ₂ low):	0 to 1,000 ppm in 1 ppm increments
Hydrogen Sulfide (H ₂ S):	0.0 to 200.0 ppm in 0.1 ppm increments
Nitrogen Dioxide (NO ₂):	0.0 to 150.0 ppm in 0.1 ppm increments
Sulfur Dioxide (SO ₂):	0.0 to 150.0 ppm in 0.1 ppm increments

BATTERY:

Replaceable 3.6 V primary lithium-thionyl chloride (Li-SOCl₂); 1.5AH, 2/3AA; nonrechargeable; always on; 3 year run time depending on operating conditions

DATALOGGING:

3 months at 10-second intervals

EVENT LOGGING:

60 alarm events

CERTIFICATIONS

INGRESS PROTECTION:

IP66; IP67

-40°C to +50°C (-40°F to +122°F)

ATEX	Ex ia I Ma, Ex ia IIC T4 Ga, Equipment Group and Category: I M1 and II 1G
CSA	Ex ia IIC; Class I, Groups A B C D; T4
IECEX	Ex ia I Ma, Ex ia IIC T4 Ga
UL (C-US)	Class I, Groups A, B, C, and D; Class II, Groups E, F, and G; T4; Exia Class I, Zone 0, AEx ia IIC T4
INMETRO	Ex ia IIC T4 Ga; Ex ia I Ma

-20°C to +50°C (-4°F to +122°F)

China Ex	Ex ia IIC T4 Ga
KOSHA	Ex ia IIC T4

These specifications are based on performance averages and may vary by instrument.

*The Tango is warranted to be free from defects in material and workmanship under normal and proper use and service for 3 years from the initial purchase date.

† Operating temperatures above 50°C (122°F) may cause reduced instrument accuracy. Operating temperatures below -20°C (-4°F) may cause reduced instrument accuracy and affect display and alarm performance.

**INDUSTRIAL
SCIENTIFIC**

www.indsci.com

AMERICAS

Phone: +1-412-788-4353
1-800-DETECTS (338-3287)
Fax: +1-412-788-8353
info@indsci.com

ASIA PACIFIC

Phone: +65-6561-7377
Fax: +65-6561-7787
info@ap.indsci.com

EMEA

Phone: +33 (0)1 57 32 92 61
Fax: +33 (0)1 57 32 92 67
info@eu.indsci.com

**INDUSTRIAL
SCIENTIFIC**

www.indsci.com