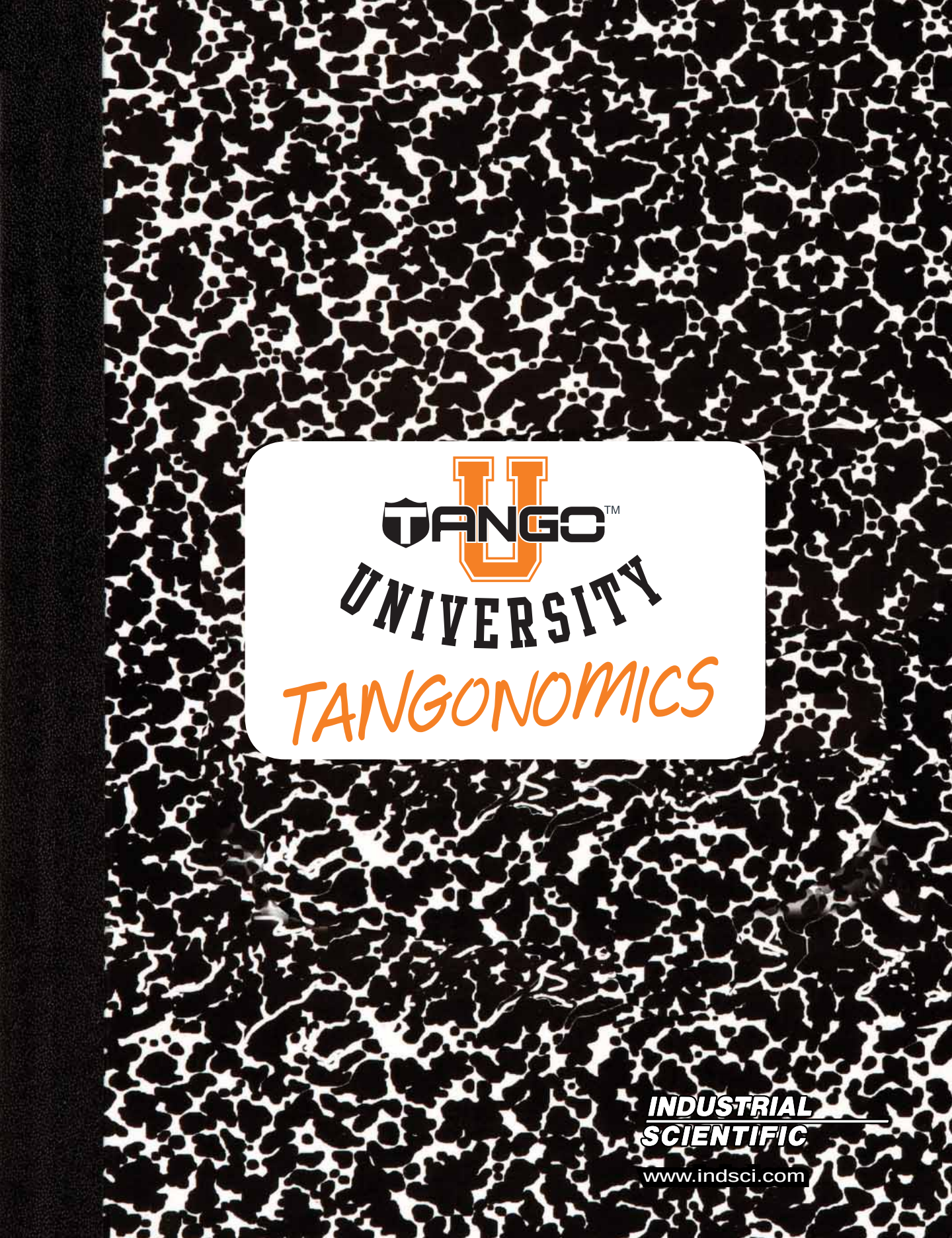
TANGO™
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TANGONOMICS
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Property of

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TANGO™ TX1

- 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.

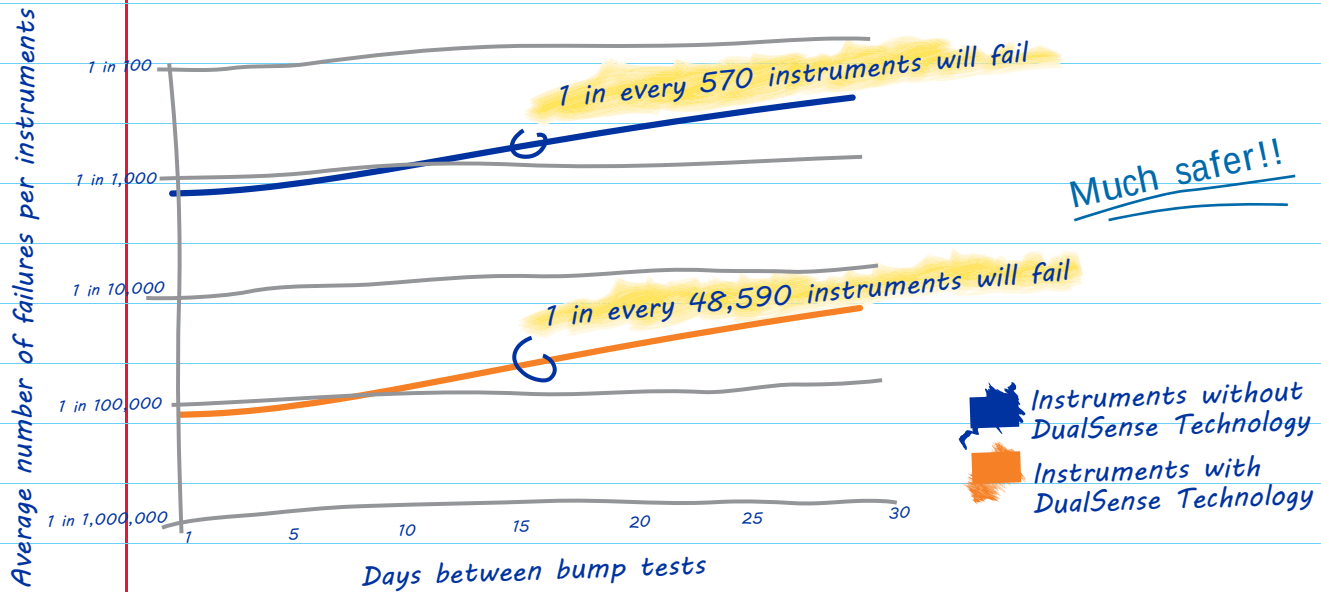
What challenge is solved by the Tango with DualSense Technology?

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

iNet DS 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_2S
TX1-4	Tango TX1, NO_2
TX1-5	Tango TX1, SO_2
ACCESSORIES	
18109201	iNet DS docking station for Tango*
18109249-ABC	DS2 Docking Station for Tango Ordering Information B = number of iGas® Readers: 0 – none; 1 = 1 iGas Reader; 2 = 2 iGas Readers; 3 = 3 iGas Readers C = Power cord Option (0 – US, 1 – UK, 2 – EU, 3 – AUS, 4 – ITA, 5 – DEN, 6 – SWZ)
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

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

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 H_2S 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, H_2S, NO_2, SO_2 - Electrochemical sensor technology

SENSOR MEASURING RANGES:

Carbon Monoxide (CO):	0 to 1,000 ppm in 1 ppm increments
Hydrogen Sulfide (H_2S):	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

EVENTLOGGING:
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
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

-20°C to +50°C (-4°F to +122°F)

CSA	Ex ia IIC; Class I, Groups A B C D; T4
China Ex	Ex ia IIC T4 Ga
INMETRO	Ex ia IIC T4 Ga

PENDING:

MSHA	Permissible Gas Monitor
KOSHA	Ex ia IIC T4 Ga
China MA	Safety Certificate of Approval for Mining Products

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.

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