

SESSION WILL COMMENCE SHORTLY

Honeywell



MOTIVATE
COLLABORATE
ACCELERATE
100% VIRTUALLY

Honeywell

—
**THE
FUTURE
IS
WHAT
WE
MAKE IT**

The logo for 'Elevate 2021' is centered. The word 'Elevate' is in a large, bold, white sans-serif font with a red outline. Below it, '2021' is in a smaller, white sans-serif font. The text is superimposed on a dark red, textured circular shape. Surrounding this circle are various silhouettes of global landmarks in shades of orange and red, including the Taj Mahal, the Sydney Opera House, the Leaning Tower of Pisa, and several skyscrapers. The background features a pattern of white triangles on the left and a pattern of orange triangles on the right.

Elevate

2021

ANNUAL PARTNER CONFERENCE

SAFETY & PRODUCTIVITY SOLUTIONS
HIGH GROWTH REGIONS

MOTIVATE
COLLABORATE
ACCELERATE
100% VIRTUALLY

BW ICON, ICON+ AND FLEX

PARTNER CONFERENCE

CHRIS TOWNSEND
CUSTOMER MARKETING
MANAGER

Honeywell

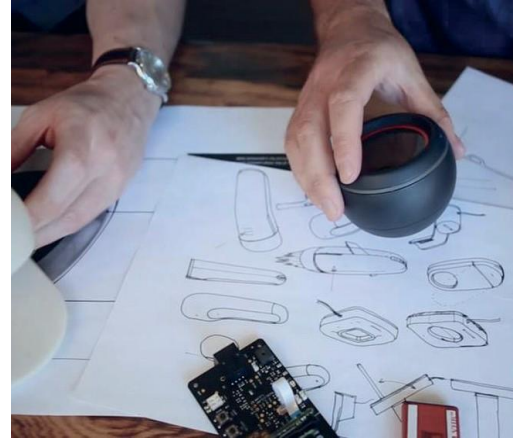
WE'RE REINVENTING GAS DETECTION ALL OVER AGAIN

Today's Presentation

- The Journey
- Platform Approach
- BW Icon recap
- BW Icon+ recap
- BW Flex
- Future Innovations
- Software



GROWTH THROUGH DESIGN



Consistency in DLS (Design Language System)

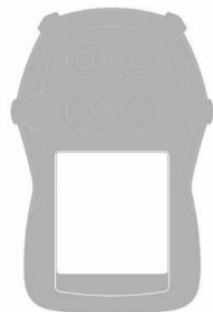
KEEPING OUR STRONG DNA

Clip4



- IR LEL Sensor
- Longer Runtimes

Quattro



- Ruggedized
- Clear Information

MicroClip



- Small Form Factor
- Ease of Use

Max Xt



- Pumped Device
- IntelliFlash

Micro 5



- Flexibility Of Gas Selection
- Configurable



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HONEYWELL BW™ ICON

Next Generation Compliance Portables



INTRODUCING BW ICON



- 2 month battery runtime



- Bluetooth as standard



- Low Power Infrared LEL Sensor



- SO2 as a optional sensors



- 2 year fixed life device



- Icon Driven Device



BW ICON – FEATURES



1. Battery Runtime

2-month battery run time and can be charged using existing chargers or USB charger provided with device.

2. Bluetooth

All device come with BLE as standard. This allows for use with Safety Suite, third party device and Touch Connect.

3. Icon Driven

8 icons showing gas levels and device status allows for quick and easy understanding of unit.

4. One Button

Following the success of legacy BW products, BW Icon has taken the DNA from these devices.

5. 4 sensors as standard

Two configurations are available – CO/H2S/O2 and IR LEL or SO2/H2S/O2 and IR LEL.

6. 1 Series

Uses the 1 series platform for a smaller footprint. Sensors from City Tech and Elichens.

7. Fixed Life

BW Icon is designed to have a fixed 2-year life and its main aim is to migrate BW Clip users over to a four-gas device.

8. Klick Fast System

We offer two fittings, the traditional Klick Fast system. This allows for an array of accessories for any job.

9. External Filters

Can accommodate external filters for quick maintenance. These external filters can be in place whilst Bump test or Calibration are done in IntelliDox.

10. Event-Log

The BW Icon will hold the last 50 event logs and can be reviewed through Safety Suite.

11. Data-Logs

The BW Icon will hold 50 days of data logs based on a 15 second data log cycle.

12. IP 66/68

Tested to meet the Ingress Protection of 66 & 68.

13. USB Charging

Ability to charge with USB, allows for charging in vehicles.

14. Bump and Calibrate

Ability to carry out a manual bump/calibration – also can be done through Safety Suite and Phone App.

15. Shelf Life

Up to a 6-month shelf life to support distribution network.

16. IR Connectivity

IR capabilities for use in IntelliDox and BW's IR Connectivity kit.

17. First Time Calibration feature

30-day grace period to allow for shipment. Means the customer gets a full 180-day calibration on start up.

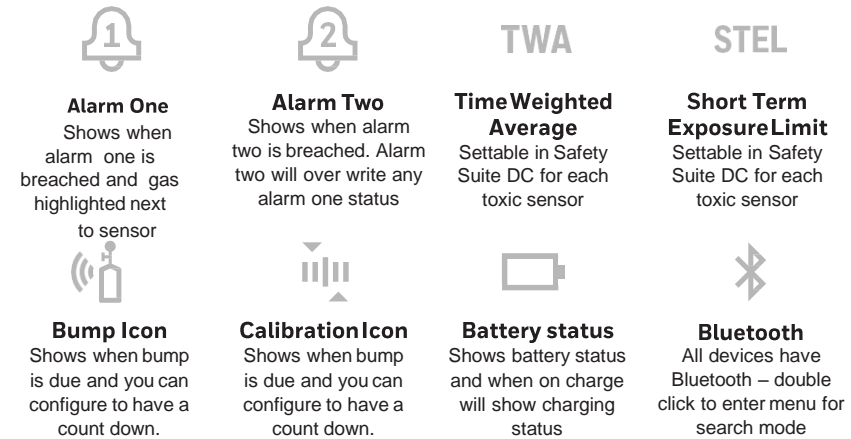
18. Intelliflash

We have enhanced the Intelliflash to also show amber for maintenance actions like bump testing.

BW ICON – USER INTERFACE

When doing VOC the feedback from end users in particular was that they had very little to **no understanding** of what gas values actually meant. So we thought if we could remove this level of **complexity** and **Uncertainty** and were to replace it with **simple to understand Icons**

– Would that work?



BW ICON – USER INTERFACE



Alarm One
Low alarm



Alarm Two
High Alarm



Bump
Icon



Calibration
Icon

TWA

Time
Weighted
Average

STEL

Short Term
Exposure
Limit



Battery
status



Bluetooth



BW ICON – USER INTERFACE



Alarm One
Low alarm



Alarm Two
High Alarm

TWA

**Time
Weighted
Average**

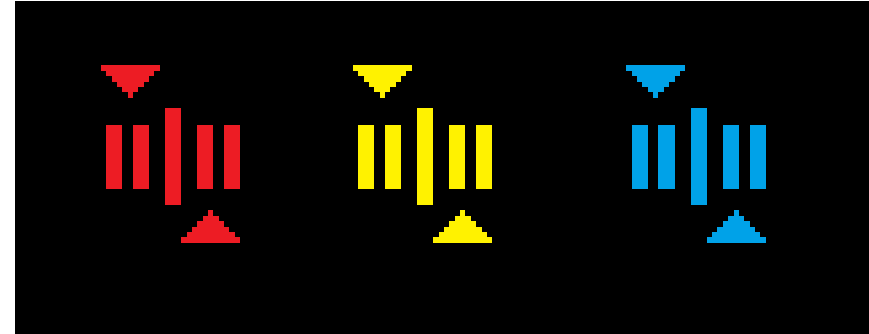
STEL

**Short Term
Exposure
Limit**

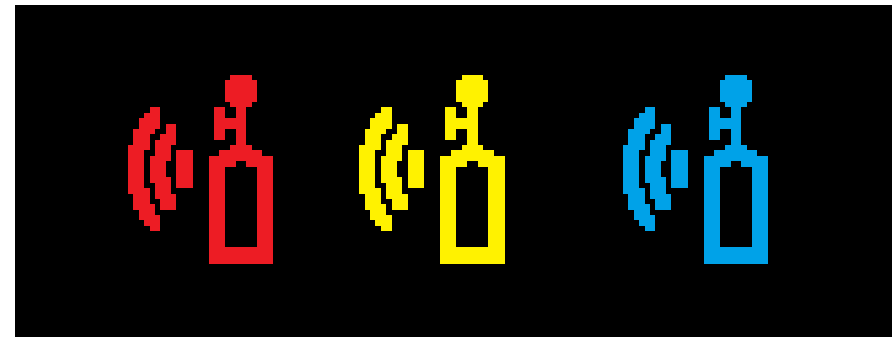


BW ICON - COUNTDOWN

Can be programmed to Flash yellow to warn users when they are nearing but not exceeded the calibration interval



Flashes blue when being accessed in the menu



Red when past due

BW ICON (4-GAS DISPOSABLE)



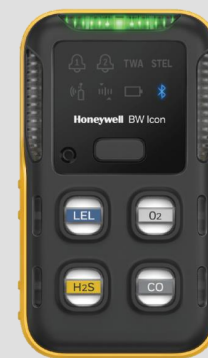
Basic Compliance



Values:
Ergonomics
Simple
Quality
Cost
Durable

RoHS

RoHS compliant



\$

- 5 gases to choose from – (2x 4-gas variations only)
- BLE built in no BW Connect required.
- Legacy chargers used & IDX
- 2 year life, 2 year warranty, minimal OP-EX consideration ideal for a CAP-EX driven customer approach,
- Migrate Clip users not steal from MicroClip!
- 2 year repeat revenue

BW CLIP TO BW ICON

- **Same Site, Same Risks** – Why does it differ from full time employees and contractors?



Over 2 Million single gas device are sold global each year



Target customer for BW Icon is the customer who today uses a single gas device and is working on a site like a O&G/ Steel or Utilities where it is not just a single gas that is present form a applications point of view.

#MakeMeSafer

Mission of campaign – to educate and migrate as many single gas users over to multi-gas. BW Icon is a Two year fixed life that is at the right price point to support this transition.



HONEYWELL BW™ ICON+

Next Generation Compliance Portables

HONEYWELL BW ICON+

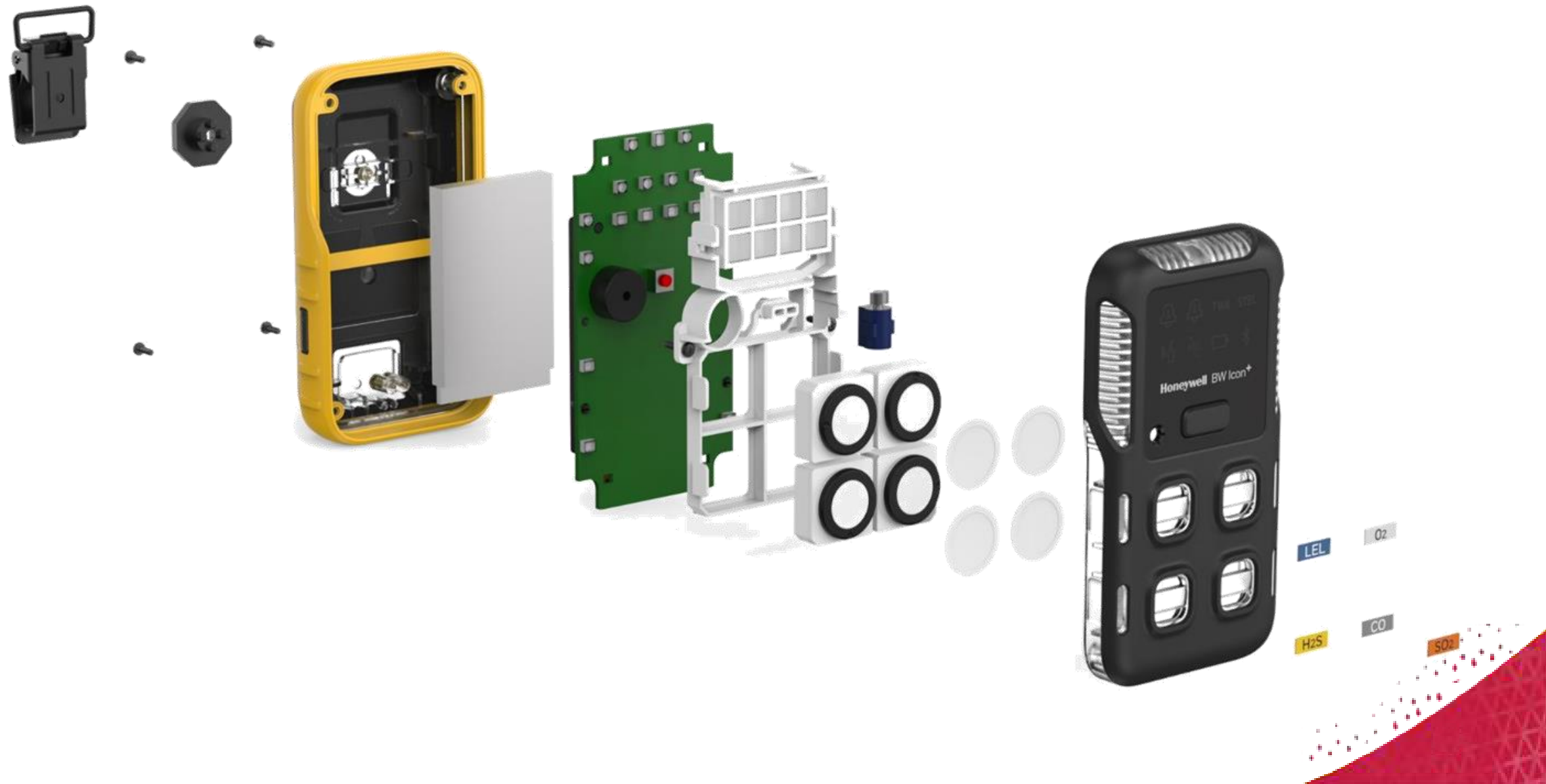
Combining the simplicity of the Icon driven display and with a wider range of sensors to choose from the BW Icon+ allows for full flexibility.

This device is a fully serviceable device with a wider range of sensors available. We will also be offering the 1 series sensors in both an analogue and digital format on this platform allowing us to support a wider range of verticals and segments.



- **Low Power Infrared LEL sensor so no issue with sensor poisoning**
- **Oxygen Sensor is lead free so doesn't need Replacing every two years.**
- **Wider sensors coming in 2020, will open up New applications**
- **3 year warranty as standard**
- **Bluetooth with Safety Suite and SSDC APP Allows for real time reading and data capture.**
- **1series sensor for 5 year life time expectancy**
- **External filter test in IntelliDox.**
- **Sensors can be disabled through Safety Suite if required**

EXPLODED VIEW



BW ICON+ (4-GAS ANALOGUE)



Enhanced Safety



Values:
Cost of Ownership
Quality
Flexibility
Durability
Power Options



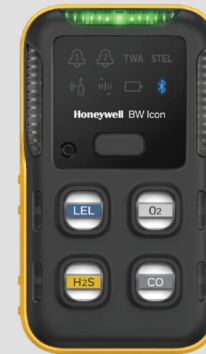
Designed to
meet global
performance
standards



RoHS compliant



5-year life



\$

- 5 gases to choose from Flex, (more coming)
- BLE built in no BW Connect required.
- Paired with Phone for richer info
- Legacy chargers used + IDX.
- Serviceable devices for OP-EX driven customers

HONEYWELL BW™ FLEX

Next Generation Compliance Portables

HONEYWELL BW FLEX



- Optional Smart Sensors – position anywhere
- Clear, dot-matrix LCD display
- 13 plus gases to choice from.
- Device complexity tailored to users skill set
- Accessories designed for differing application use cases
- Differing sensor technologies to offer differing solutions and run times. IR and Catalytic Flammable sensors, IR CO2

FLEX4 – FLEX-I

BW Flex4



Designed to meet global performance standards

RoHS 

RoHS compliant



5-year life

BW Flex-i



Pre-calibrated



Predictive calibration



Digital traceability



Fault indication



Interchangeable



End-of-life indication



Designed to meet global performance standards

RoHS 

RoHS compliant



5-year life

BW FLEX4 (4-GAS ANALOGUE)



Enhanced Safety



Values:
Cost of Ownership
Quality
Flexibility
Durability
Power Options



Designed to
meet global
performance
standards

RoHS

RoHS compliant



5-year life



\$\$


- 5 gases to choose from Flex, (more coming)
- BLE built in no BW Connect required.
- Paired with Phone for richer info
- Legacy chargers used + IDX.
- Serviceable devices for OP-EX driven customers

BW FLEX-I (4 & 5)



Honeywell

Premium Safety



Values:
Analytical Reports
Configurable
Exotic sensors
Feature Rich
Connected



Pre-calibrated



Predictive calibration



Digital traceability



Fault indication



Interchangeable



End-of-life indication



Designed to meet global performance standards

RoHS

RoHS compliant



5-year life



Flex-i



\$\$\$

- 5 gas with COSH and CO2 available
- Digital Sensors Feature Set
- Pump accessory to allow external sampling
- Smaller device – 5 gas smaller than MC
- Legacy chargers used – IDX & LCBS.

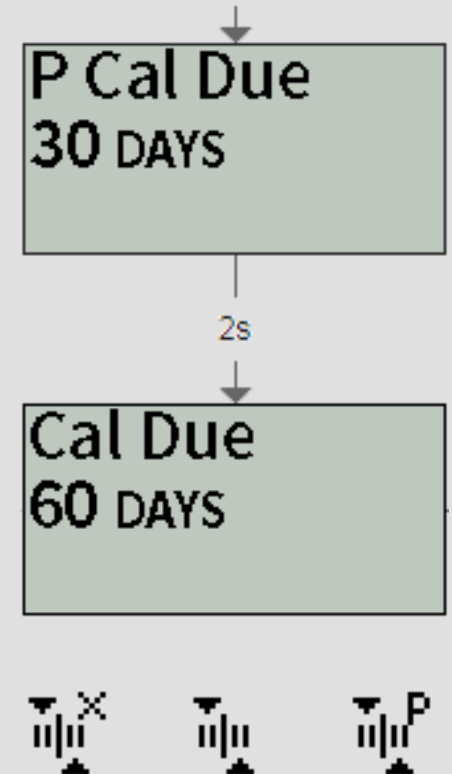
I SERIES VALUE PROPOSITION

Pre-calibration

- New sensors can be installed without the need for an immediate calibration
- Allows calibrations to be scheduled around the standard work flow minimising downtime in time critical operations such as turn-arounds
- Ideal for remote applications such as Marine industry

Predictive Calibration

- Sensor diagnostics
- Unique predictive “P Cal” countdown as well as normal countdown
- New “P Cal” icon
- Data driven decisions



I SERIES VALUE PROPOSITION

Digital Traceability

- Sensor serial numbers visible
- Transferable

Fault Indication

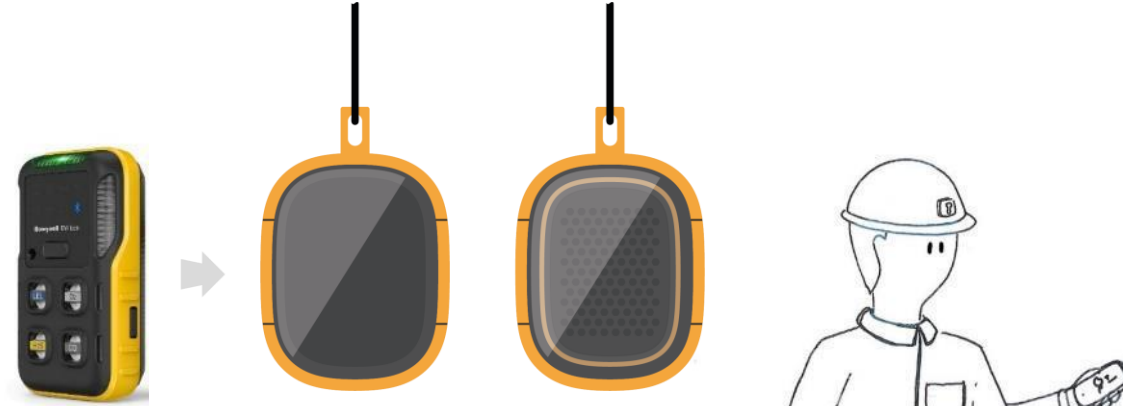
- Clear fault indications

End of life

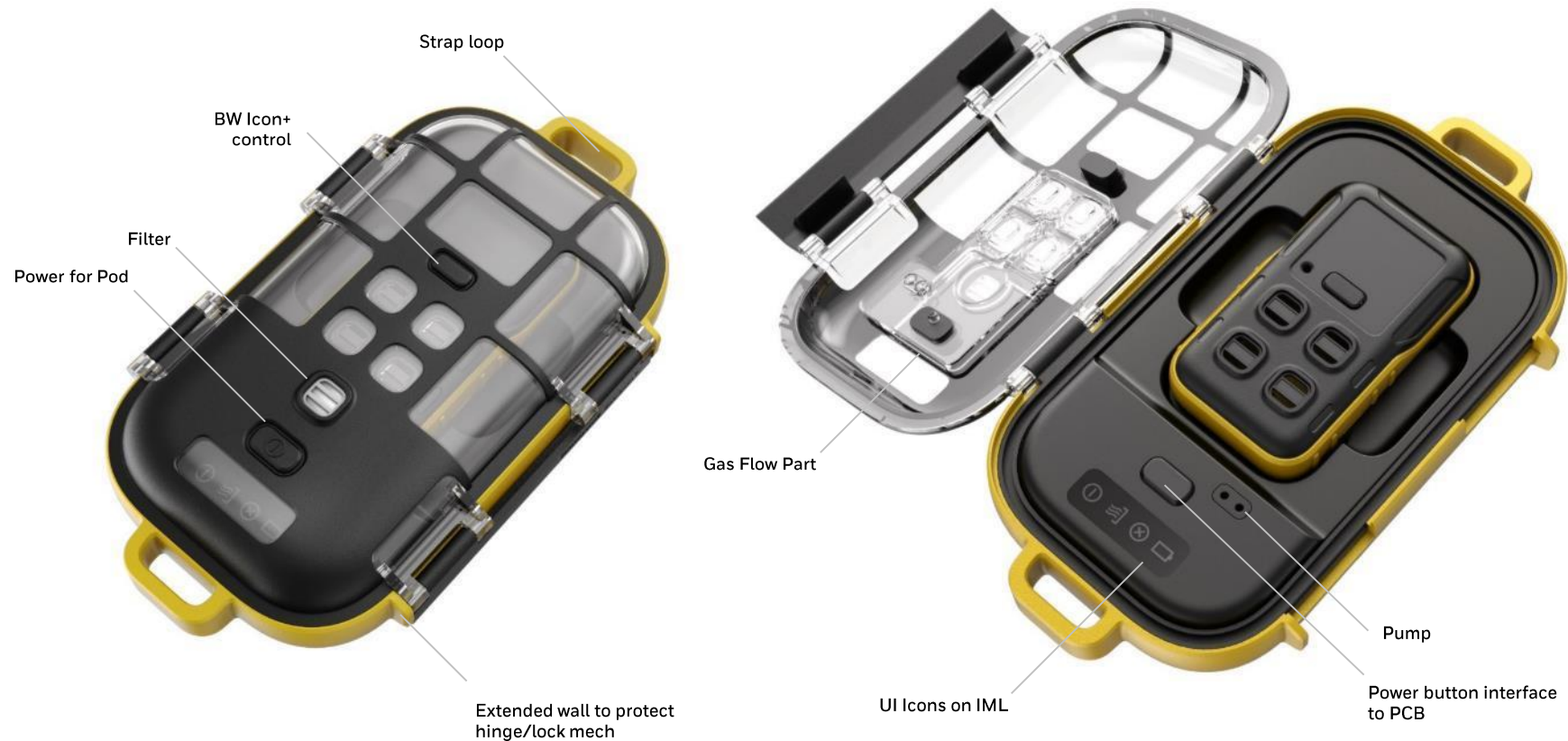
- Clear sensor EOL warnings

CONFINED SPACE ENTRY POD WITH PUMP

- New concept for market place.
- Pod with pump
- Load Gas detector into the Pod and lower into manhole to monitor gas levels.
- Note: By integrating the pump into the probe device, we can reduce the size of the gas detector.



CONFINED SPACE ENTRY POD WITH PUMP



Can be used with magnet to mount in CSE

PROBE WITH PUMP AND DISPLAY



Probe:

- Will have built in pump
- IR connectivity
- Lora/BLE for RTM and CSE Permit to work
- Can take Icon or Flex
- 3 user options for sampling
- Accessories for ease of sampling and wearing

Main Applications:

- General sampling
- CSE and Permit to work
- City Gas



APPLICATIONS

CO₂

Carbon Dioxide

Food and Beverage
Shipyards
Manufacturing
Green House
Border Control

H₂

Hydrogen

Power Plants
Refining
Hazmat
Chemical Manufacture

O₃

Ozone

Utilities
Public Works
Water and Waste
Welding

HCN

Hydrogen Cyanide

Fire Fighting
Steel Mill
Mining
Food and Beverage
Hazmat

NO

Nitric Oxide

Mining
Construction
Agricultural
Shipyards
Welding

SO₂

Sulphur Dioxide

Chemical Manufacturing
Utilities
Hazmat
Paper and Pulp
Pharmaceutical

NO₂

Nitrogen dioxide

Construction
Agricultural
Mining
Steel Works
Manufacturing

PH₃

Phosphine

Agricultural
Food and Beverage
Hazmat
Drug Labs
Shipyards

NH₃

Ammonia

Agricultural
Food and Beverage
Chemical manufacture
Oil and Gas
Utilities

ClO₂

Chlorine Dioxide

Water and Waste
Paper and Pulp
Cleaning Applications

Cl₂

Chlorine

Water and Waste
Paper and Pulp
Cleaning Applications

CO/H₂S/
LEL/O₂

All the above

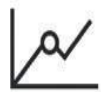
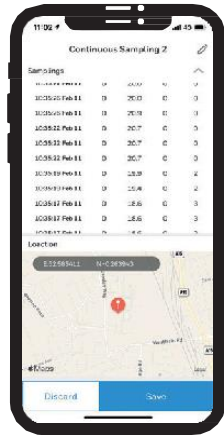


MOTOROLA

- Real-time Gas Detection via BLE to Radio connection
- No supplemental gateway hardware needed
- Data is channelled from Motorola control system to Safety Suite Real Time
- Connectivity for all Icon and Flex series products as well as our other BLE enabled devices

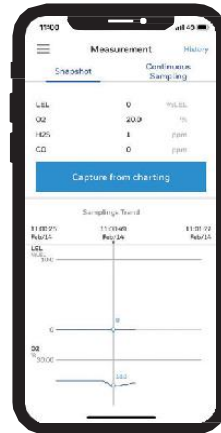
SAFETY SUITE DEVICE CONFIGURATOR APP

Snap Shot



This allows you capture and email gas readings, location and images

Continuous sampling



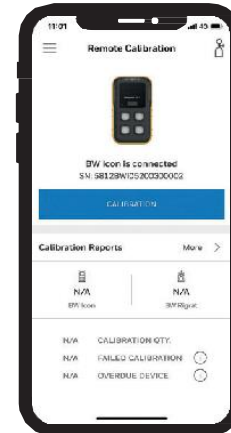
See live gas readings and values, ideal for CSE

Device Setup



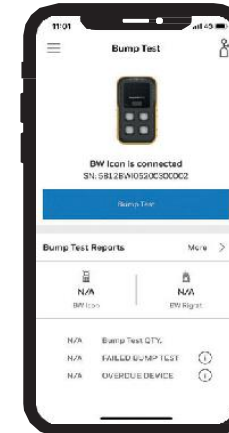
Download, edit and upload configuration files of device

Remote Cal



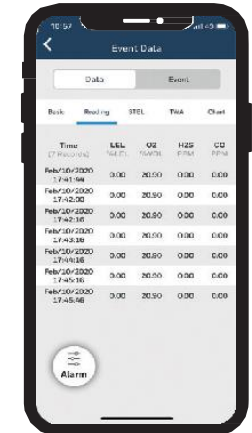
The ability to carry out a remote and manual calibration

Bump Test



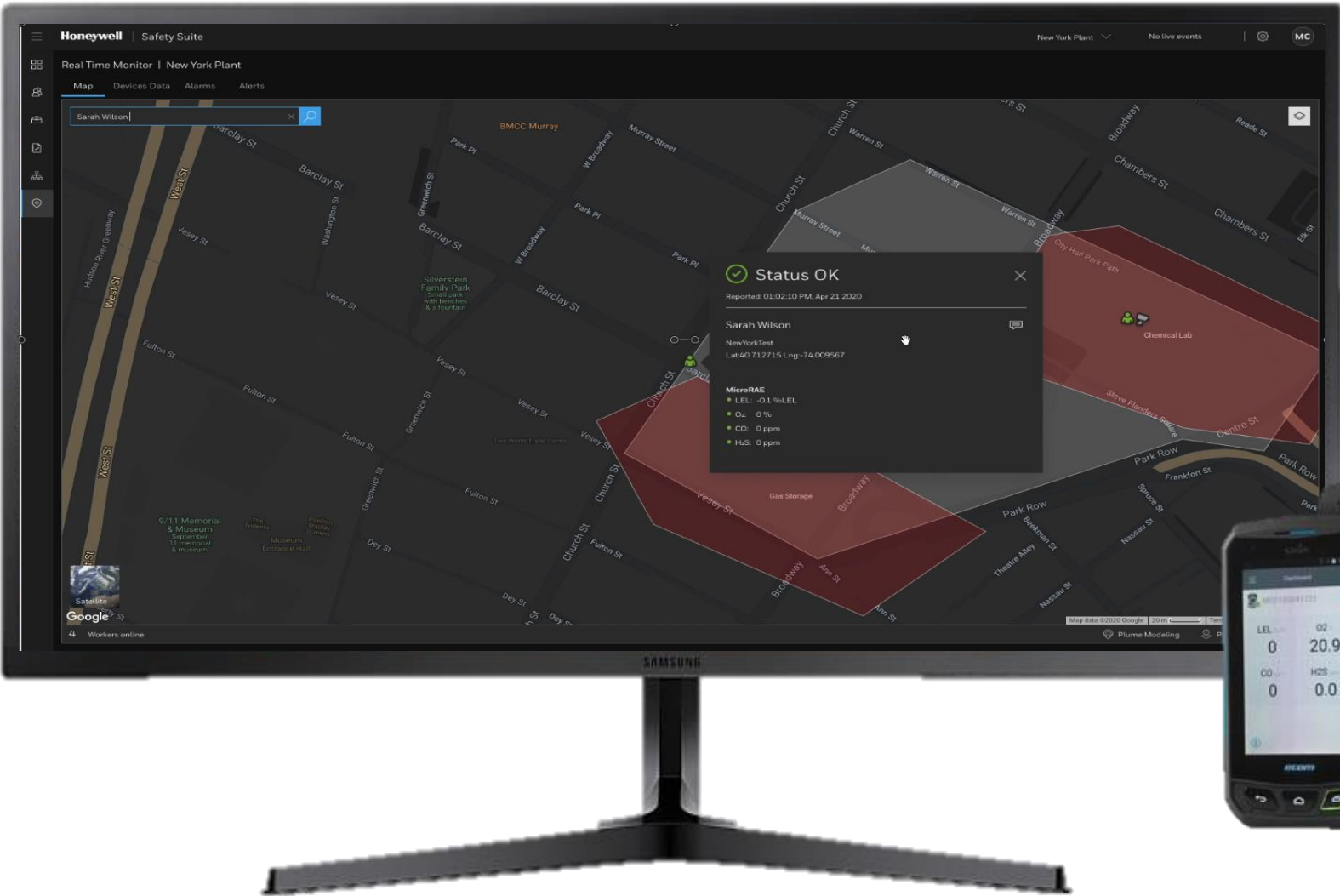
The ability to carry out a remote and manual Bump Test

Data & Events



review all events and data captured and email of reports

SAFETY SUITE REAL TIME MONITORING



ACCESSORIES



CP-AF-K1 / CP-AF-K2
External Filter Kit – CO / SO2



DX-CP
IntelliDox for BW Icon
and BW Flex range



DX-NEST-CP
IntelliDox nest for BW Icon and
BW Flex range



CP-C01-5
5 way cradle charger, BW ICON/ICON+ and Flex



CP-SS-AF-K1
10 x Filters for External
Filter Cap



GA-PA-1-MC5
Mains 5-way charger for BW Icon
and BW Flex



CP-USB
USB Charger for BW Icon
and BW Flex range

THANK YOU

Honeywell

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