



CONNECTED INDUSTRIALS



CONNECTED HOMES



CONNECTED BUILDINGS

HIS Taiwan
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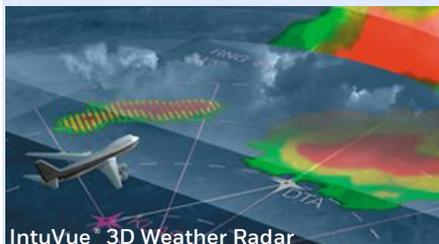
HONEYWELL 互聯工業安全 -
以人為本的智慧工業安全系統

Honeywell
THE POWER OF **CONNECTED**

HONEYWELL 總覽

全球領先的多元化、高科技先進製造企業
年營業額386億美元，毛利率18.8%，53%以上營收來自美國以外市場

航太工程事業群



全方位航空解決方案

- 機械、駕駛艙系統及軟體解決方案實現全機覆蓋
- APPS、服務、維護和預訂支援
- 從硬體到空中資源的端對端互聯解決方案
- 渦輪增壓技術提升油效

根據2015 全年數據

特殊材料和技術事業群



領先業界的工藝和科技

- 煉油和石化工藝催化劑
- 模組化氣體處理技術
- SOLSTICE® 低全球變暖潛質材料
- SMARTLINE 變送器
- 資產優化管理軟體

智能建築與家居事業群



互聯樓宇和家庭

- 安防和消防
- LYRIC互聯家居解決方案
- 建築領域的「物聯網」開發軟體

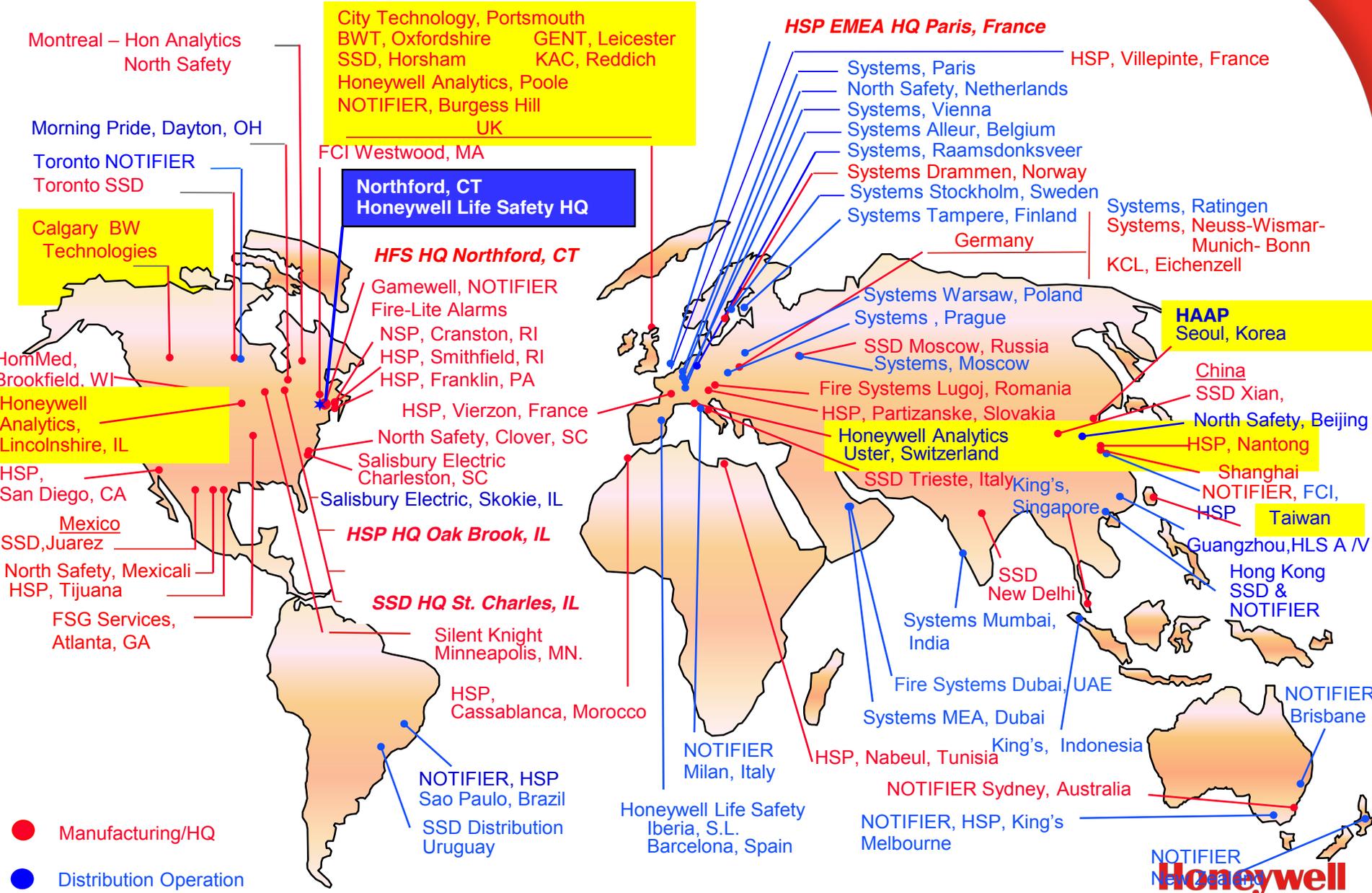
安全與生產力解決方案事業群



互聯工業

- 基於無線、聲控、行動、資料分析所設計的工作人員解決方案
- 倉儲自動化管理
- 工作人員防護

HONEYWELL INDUSTRIAL SAFETY - WORLDWIDE OPERATIONS



M&A 併購 = 額外的向上力



核心競爭能力

- 符合規範的盡職調查和評估
- 卓越的整合
- 創建成長平臺

市場機會

- 豐富的目標管道
- 全新且富吸引力的延伸市場
- 瞄準居家、樓宇和工業市場

技術和創新

22,800
位研發技術人員

118
處研發和工程中心

37,000
已批准
和待批准專利

因應全球艱鉅挑戰，專注研發解決方案

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七大營業單位

大中華區

智慧建築部

樓控系統、消防與報警、安防、可視對講、門禁、防盜報警、智慧能源



智慧家居部

空氣淨化器、淨水器、溫控設備、電工產品、中央新風系統



建築智慧系統部

樓宇管理系統及服務



工業安全部

氣體探測、個人防護



傳感與生產力解決方案部

傳感與生產力解決方案部



亞太區

安防與消防部

消防與報警、安防、視覺化對講、門禁、防盜報警



環境與能效解決方案部

樓控系統、環境控制、智慧能源



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跨國直擊
未來製造
它說了算

德國的 章魚戰略： 工業4.0



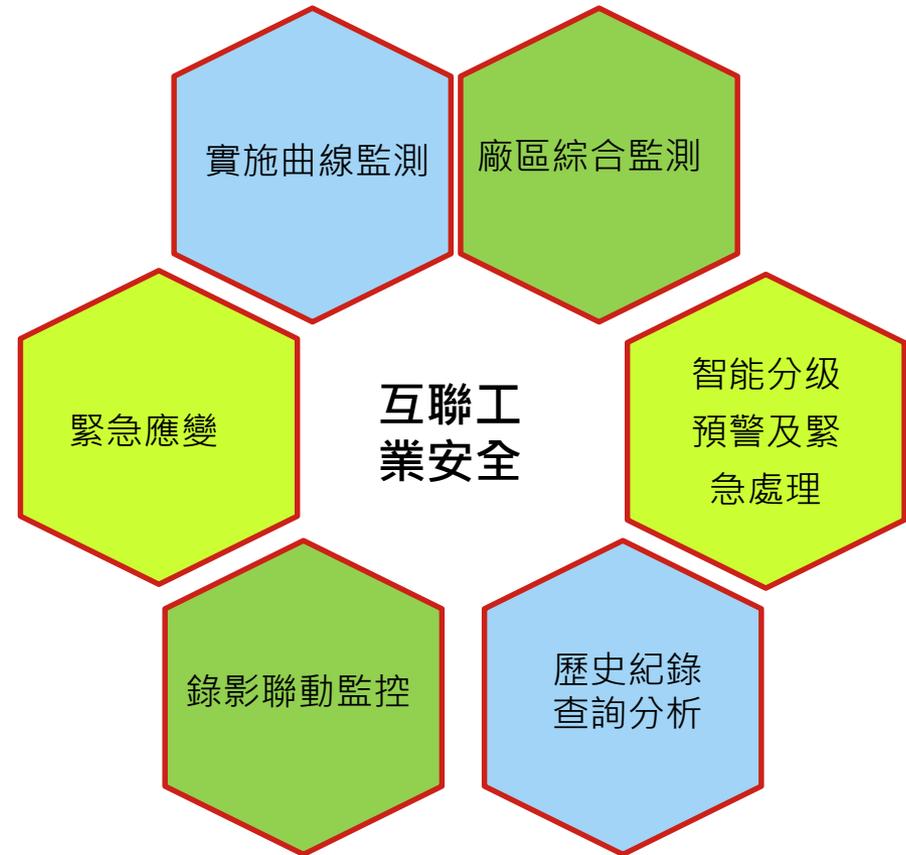
文章摘自「天下雜誌564期」

工業安全--互聯工人



互聯工業安全

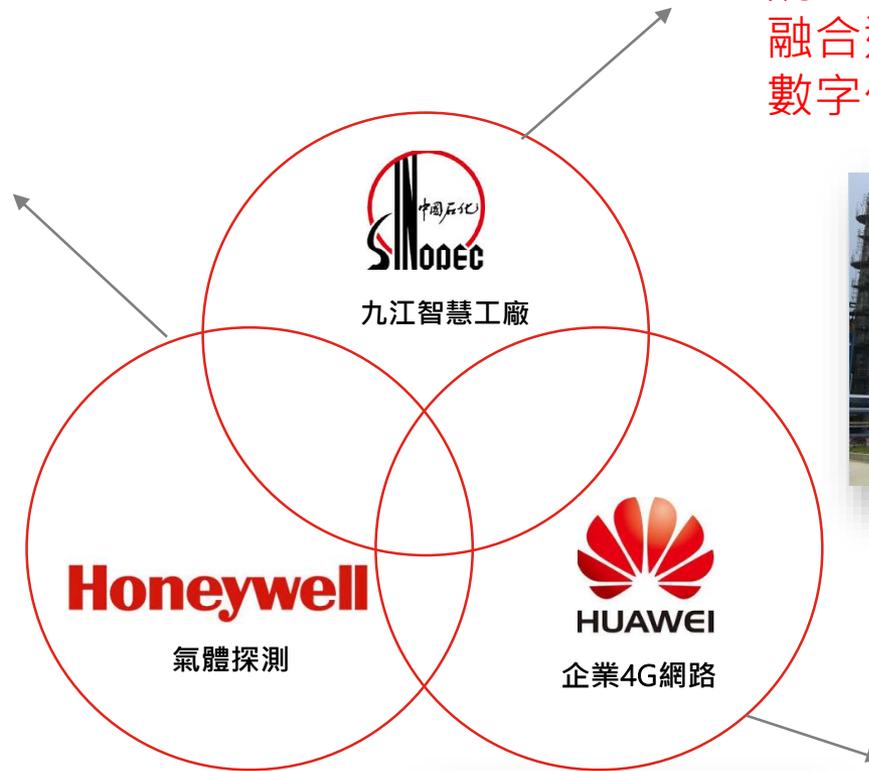
- 提升油氣、石油化工、煉化廠的工廠和工人安全
- 互聯工廠
- 實時監測
- 預警處理
- 安全報表
- 風險分析
- 應急救援
- 設備管理
- ...
- 互聯工人
- 實時智能判斷
- 從頭到腳全方位保護
- 後台監控
- 編隊管理
- ...



九江石化智慧工廠 工業安全

Honeywell 4G無線氣體
探測系統
工人安全保護
實時安全監測
應急救援

九江石化智慧工廠
統一物聯網平台
融合通訊平台
數字化工廠

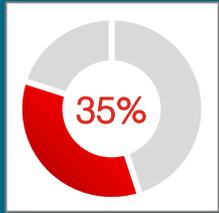


華為企業級4G私網
3個基站覆蓋5平方公里
上傳100Mbps
下載 50Mbps



智能工業解決方案的業務成長

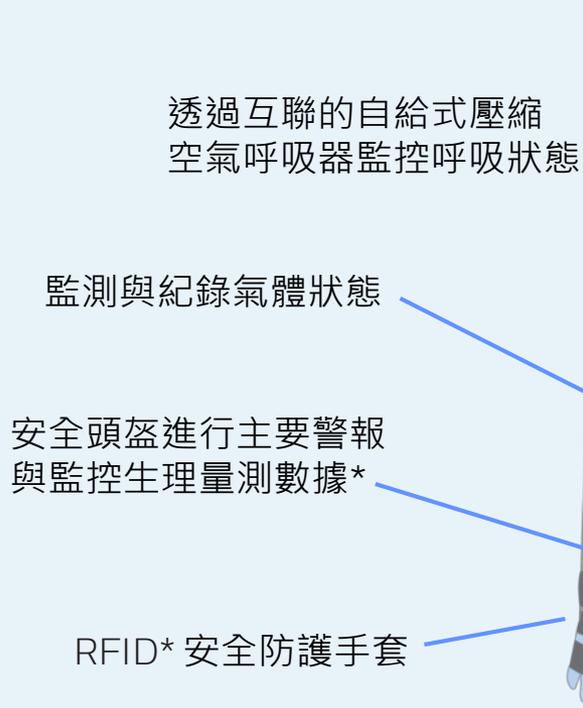
% Of ACS



關鍵性差異化優勢

- 智能產品提供安全、效率和性能
- 為互聯工作者和設施提供端對端(END TO END) 解決方案
- 無線、語音、行動化及資料分析的差異化優勢

安全



效率



互聯提供安全、效率和性能

最強勢的品牌

- Honeywell 是世界上最受尊敬的工業品牌之一。在這個強而有力的品牌旗下分佈着眾多知名品牌, 提供從頭到腳全線安全裝備。

Honeywell

HOWARD
LEIGHT
by Honeywell

NORTH
by Honeywell

MILLER
by Honeywell

KING'S
by Honeywell

SALISBURY
by Honeywell

FIBRE-METAL
by Honeywell

SERVUS
by Honeywell

RANGER
by Honeywell

PRO
HARRINGTON
Airkeeper

MORNING PRIDE
by Honeywell

XTRATUF

MUCK

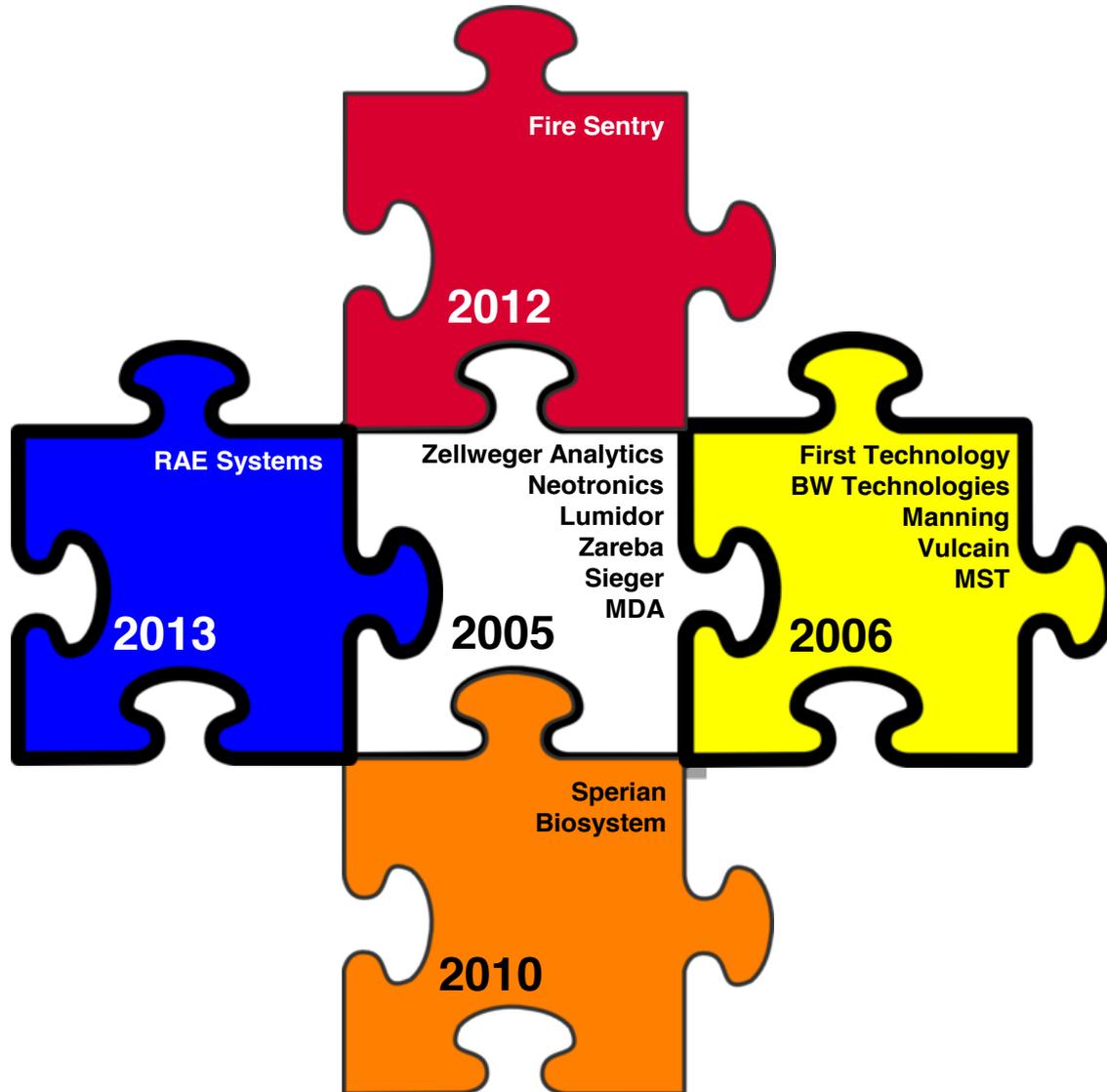
NEOS
OVERSHOE

HARLEY-DAVIDSON
ORIGINAL SAFETY WEAR

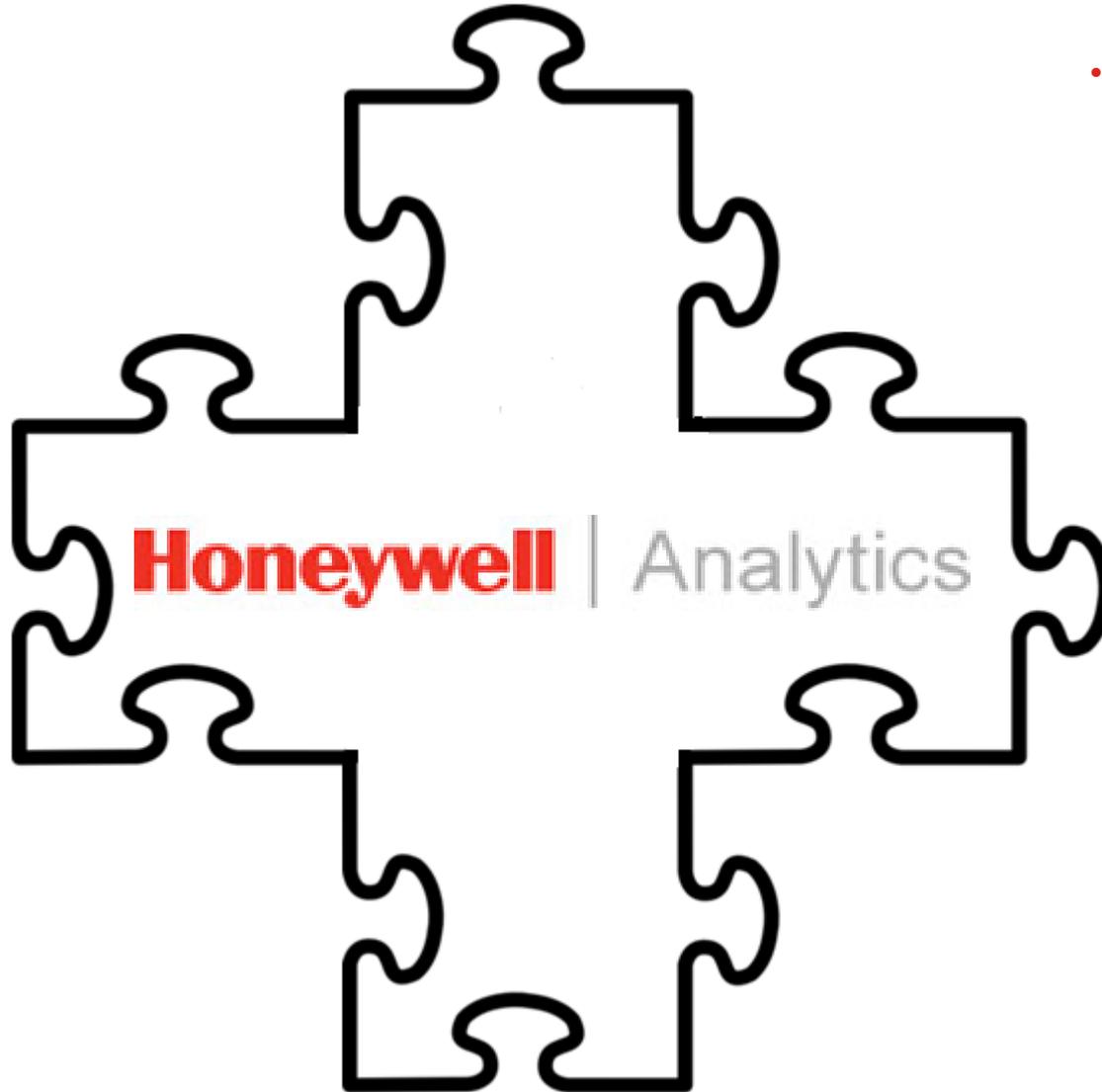
STANLEY

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Honeywell Analytics Story



We Are Honeywell Analytics



- **Core Technologies**
 - **Sensing**
 - **Point-IR**
 - **Open Path IR**
 - **PID**
 - **Electrochemical**
 - **Catalytic**
 - **Chemcassette**
 - **FTIR**
 - **3IR / 2IR Flame**
 - **UV Flame**
 - **UV/IR Flame**
 - **Radiation**
 - **Wireless**
 - **Mesh**
 - **WiFi**

Honeywell Analytics Gas Detection

Fixed & Portable World Class Gas Solutions

2,200+ Employees

High Tech
&
Semiconductor



Industrial Fixed
Applications
Fire & Gas



Personal
Portable
Monitoring



Refrigeration



Commercial
Buildings



Recreational
& Residential



- World's largest Gas Detection Company
- Over 200 years of technology development
- Broadest range covering all applications
- Field Service capability for on site support
- Strong distribution network & global coverage
- Integrated System Design and Engineering

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AreaRAE Pro



- 產品概覽
- 主要特點
- 產品應用
- 技術參數



RAE 現有的AreaRAE 系列檢測儀



AreaRAE 塑殼版

AreaRAE Steel
不銹鋼版及射線版

- 產品2001年上市
- 多種相關產品
- 產品需要更新
- 目前感測器技術已經有所發展
- 有更新的無線技術可以選擇
- 客戶對新此產品提出了更多需求
- Honeywell 品牌需要

新一代 AreaRAE 檢測儀

AreaRAE Plus



AreaRAE Pro



Honeywell 商標

Honeywell

AreaRAE Plus/Pro 簡介



概要

- 先進的可攜式無線區域監測檢測儀，讓複雜的監測變得簡單易用。

特點

- 集成多種氣體、射線、ppb級VOC感測器和氣象感測器為一體
- 多種傳輸方式可選，輕鬆解決遠端有毒有害危險物質監測難題
- RAEMet 氣象感測器可精確檢測氣象資訊，更可用於即時有毒有害氣體的煙羽擴散分析
- 快速部署，使用方便，維護簡單

通信

- 同一台檢測儀可同時安裝3種無線通訊模組
 - 主無線模組(ISM 和/或 Wi-Fi)
 - 第二通信模組Mesh 模組
 - GPS模組
 - BLE模組

感測器 技術

- 集成多種傳感技術
 - PID, EC, 可燃氣, Gamma, 氣象感測器 和 GPS
 - 25 種以上氣體感測器類型可供選擇
 - 一台檢測儀可安裝多達12 種感測器 (7 個氣體感測器)

認證

- 各種主要工業認證 (CSA C1 Div 2, ATEX/IECEX Zone II)
- 各種主要無線批准認證(FCC/IC, R&TTE)
- 設計和測試遵循：MIL STD 810G and 461F

市場定位



AreaRAE Plus 與 AreaRAE Pro
滿足高低端監測需求

主要特點 和優勢

感測器技術

氣體感測器



7 個感測器插槽	<ul style="list-style-type: none"> 可監測更多的有毒有害氣體
改進型 PID	<ul style="list-style-type: none"> 更加優化的溫濕度補償線性度/精確度 7R+感測器專用插槽，節約4R+插槽位置 <10ppb 解析度 2年質保 = 更低的使用費用
新型氣體導流板	<ul style="list-style-type: none"> 支持 HF 和 HCL 感測器
改進型 Gamma 感測器	<ul style="list-style-type: none"> 1-200 uSv/hr 量程 & >20cps(uSv/hr) 解析度
氣象感測器	<ul style="list-style-type: none"> Cost effective. Measure wind speed, wind direction, temperature & humidity

RAEMet氣象感測器



測量氣象參數

- 風速 / 風向
- 溫度和相對濕度

主要優點:

- 高靈敏度：0.1m/s
- 反應速度快：1s
- 集成電子羅盤
- 出廠校準
- 低維護維修費用
- 性價比高
- AreaRAE 直接供電

Gamma 感測器



寬量程 Gamma 射線感測器

- 1-200 $\mu\text{Sv/hr}$ 量程
- 解析度>20cps($\mu\text{Sv/hr}$)

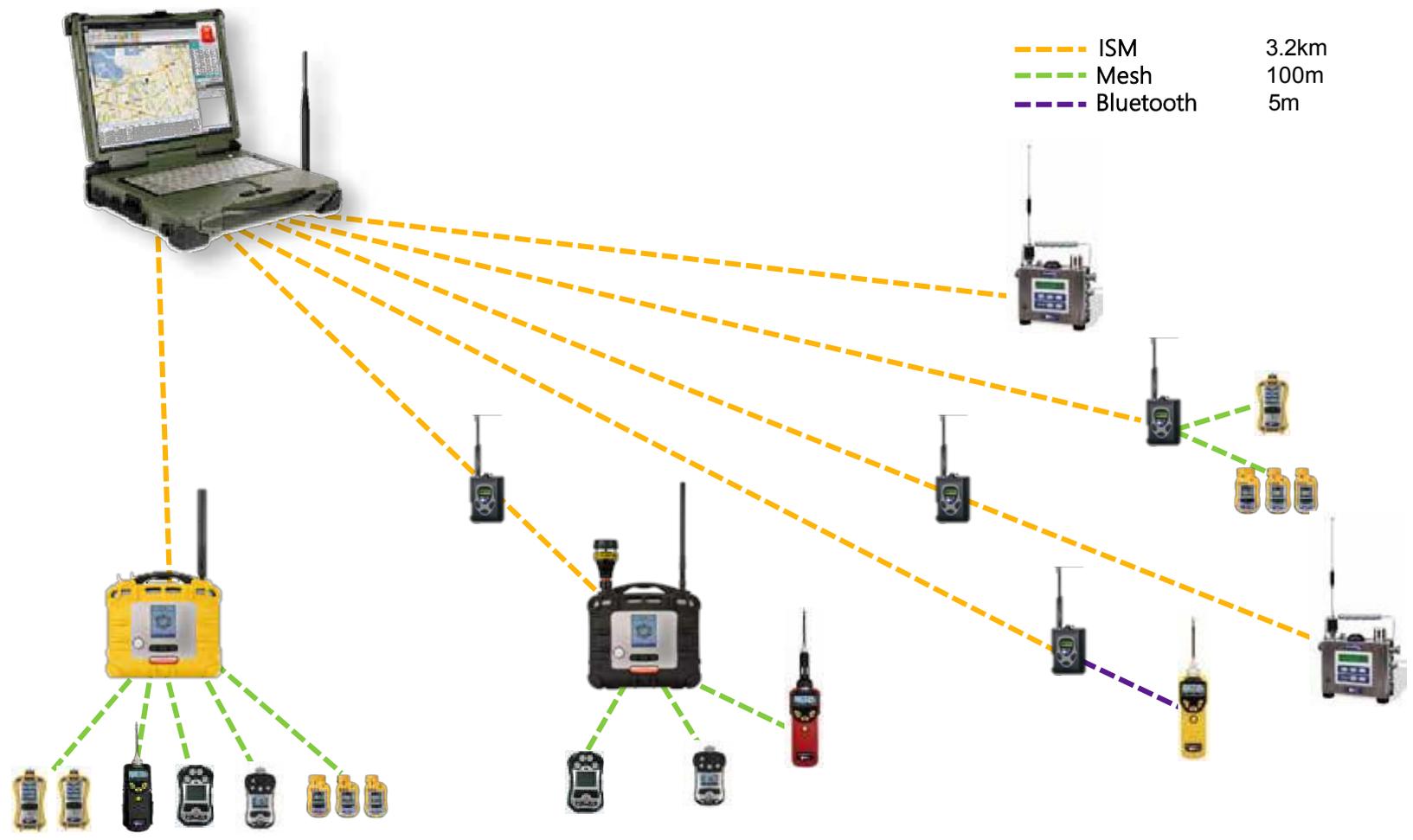
增強的無線通訊技術

- 集成標準的 **GPS** 模組
 - (達到 5 -10m 定位精度)
- 遠距離主無線模組 (同一時間只能一個處於工作狀態)
 - ISM 開放許可
 - 900 MHz 視距可達3.2 km
 - 2.4GHz 視距可達 2 km
 - Wi-Fi 模組用於遠距離通信科通過Wi-Fi 回程傳輸 (backhaul)
- 短距離**Mesh**第二無線模組
 - Mesh (900MHz / 868 MHz)
 - 視距約100m
 - 可以作為“無線HUB”連接多達8台Mesh 可攜式裝置
- **Bluetooth®** 低功耗模組 (BLE)
 - 可使用氣體配置APP (後期發佈) – 移動設備規劃中

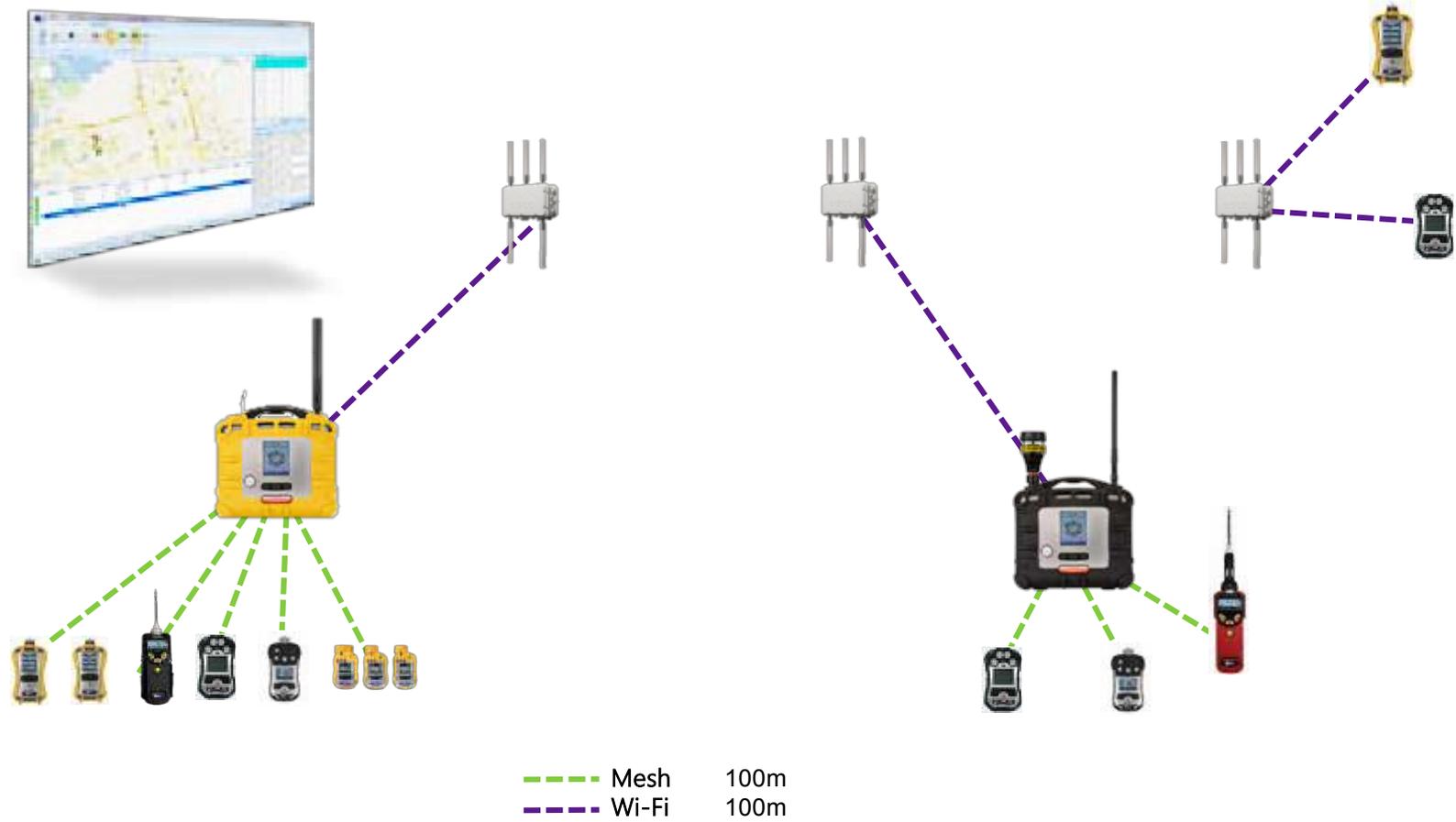


首次發佈的產品系列可同時支援4個無線模組

無線系統 ISM



無線系統 Wi-Fi



無線遠端安全監測系統



增強的產品設計

• 堅固耐用設計

- 耐衝擊彩色橡膠防護套
- 協力廠商 IP 65 防護等級測試
- 通過CSA 沖擊、振動、跌落測試

• 改進型聲光報警裝置

- 超高亮 360 度LED (紅色和綠色)
- 環繞式108dB @1m 高響度報警器

• 低功耗設計



	充電時間	執行時間
可充電鋰離子電池	規格書：<12 小時 一般室溫：約 9 小時	最大負載配置 (Gamma+ 7個氣體感測器 + RAEmet氣象感測器 + GPS+ 無線) 規格書：16小時 (室溫環境)
鹼性電池盒	NA	最大負載配置 (Gamma+ 7個氣體感測器 + RAEmet氣象感測器 + GPS+ 無線) 規格書：10小時 (室溫環境)

易於維修和維護的設計

- 節約了大於50% – 70% 的做如下事情的時間：
 - 更換電池組
 - 拆卸氣體導流板
 - 清洗/更換氣泵
 - 維護/ 更換氣體感測器
 - PID 傳感器清潔工作(7R+)
- **RAEMet 氣象感測器安裝: 無須工具輔助; 出廠已經校準**
- **4R+ 感測器互換性強**
 - (MultiRAE 和 ToxiRAE Pro 系列)
- 大螢幕顯示詳細的診斷模式
- 掃視模式



不僅僅是氣體監測器-RAEMet

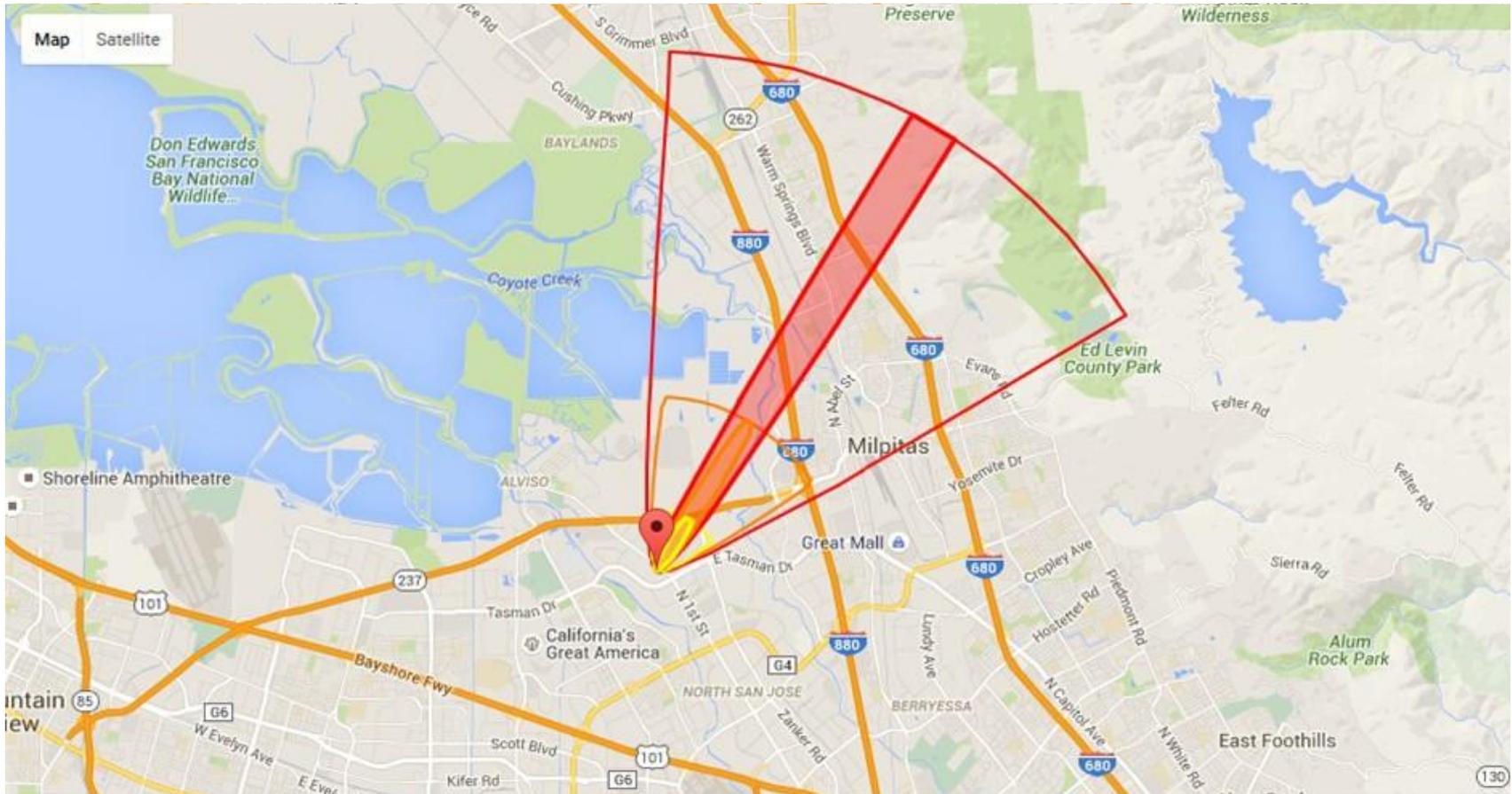
- 機載高性價比氣象感測器
- 說明客戶獲得多點氣象資訊 (給出現場精確資訊)
- 為擴散趨勢分析軟體提供資訊

RAEMet	量程	解析度
風速	0 - 20 meter/s	0.1 meter/s
	0 - 45 miles/h	0.22 miles/h
風向	0° to 359°	1°
%RH 濕度	0 to 100%RH	1%RH
溫度	-20°C to 60°C	0.1°C
	-4°F to 140°C	0.1°C

- 安裝無需工具
- 與 AreaRAE Plus 和 AreaRAE Pro 配套使用



ProRAE Guardian 集成 Plume 擴散分析功能



- ProRAE Guardian 軟體集成了免費 ALOHA 軟體
- 擴散趨勢預測基於氣體類型和氣象因素

Rapid Deployment Kit (RDK)-應急救援快速部署系統



- 開箱即用的解決方案 – 設備，無線網路，PRG
- 可單獨銷售也可與主機 (Host) 一起銷售
- 在工業上用於工廠定期檢修
- 用於應急救援
- AreaRAE Pro 及 AreaRAE Plus 可選

產品應用



應急救援/
危化品監測 / 公共安全



工業監測



Honeywell工業安全產品在天津爆炸應急救援中的應用



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Additional Disclaimers As Needed (Consult Legal)

霍尼韋爾應急專家小組協助應急救援力量展開現場救援

應急救援/ 危化品監測



主要關注點

- 靈活性和多功能
- 可靠性

決策者

- 購買方/決策者：現有用戶/ 應急救援人員/ MultiRAE 用戶/ 危化品主管 / 消防主管

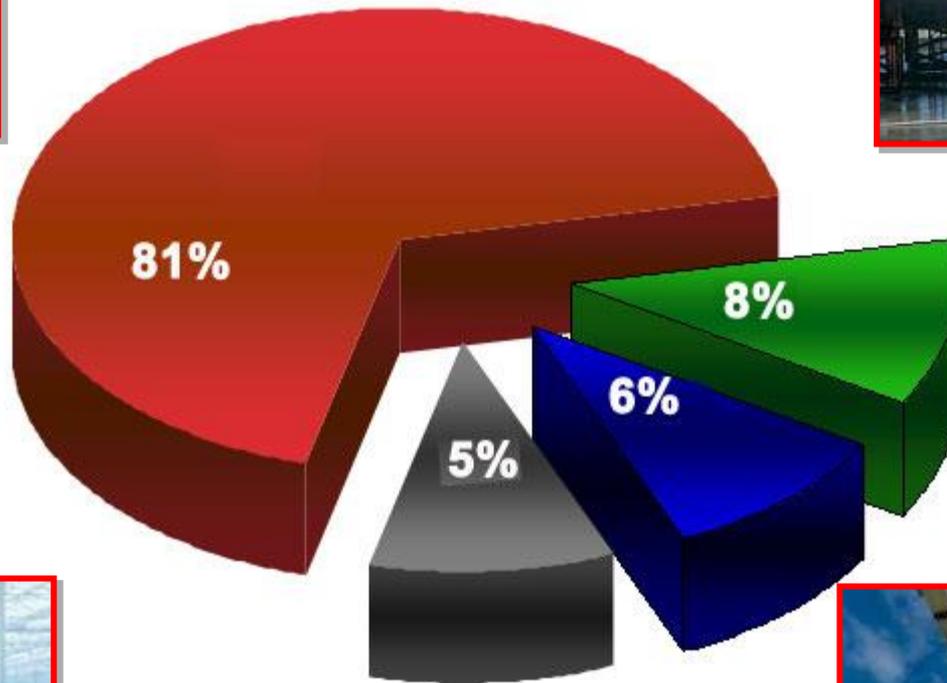
如何應對

- **部署時間** – RDK 是一款預先配置完畢的，開箱即可使用的監測系統。僅需幾分鐘，用戶即可將其與ProRAEGuardian軟體連接。AreaRAE Plus/Pro 開機即可加入系統。
- **靈活性和多功能性** – 市場上的同類產品在靈活性和多功能性上都無法與AreaRAE Plus / Pro 媲美。它帶有7個氣體感測器插槽可以監測20多種有毒有害氣體，還可以配置Gamma 感測器和RAEMet 氣象感測器。AreaRAE Plus / Pro 可以靈活配置以應對任何挑戰。AreaRAE Plus / Pro採用標準4R+感測器，可以與多種感測器交互，比如MultiRAE。除此以外，它還內置了BLE, ISM/GPS和Mesh，外加可選Wi-Fi，AreaRAE Plus / Pro可以實現與現有基礎設施的通信。
- **可靠性**– AreaRAE Plus/Pro是基於MultiRAE系列和AreaRAE平臺的。我們一貫秉承可靠性和堅固性，並且不斷地從多年經驗中吸取教訓，從而成就現在的產品。AreaRAE Plus/Pro採用堅固設計，這款新型設備通過了美國CUBRC實驗室最嚴格的測試。

Honeywell Safety Products



HIS 個人保護裝置 – Sales By Market



應用範圍



建築



燃油及氣體



重工業



汽車製造業



製造業



運輸



公用事業



防火保護



軍用



核能



風能

Strengths and Value Propositions

優勢

- Honeywell全球存在和品牌認可度
- 強大的分銷網路，由直銷人員在最終使用者支援
- 產品遺產和核心產品線
- 全球性與當地球隊
- 客戶為中心的創新與強大的存在，對標準委員會的領導者
- 多網站使用者自訂培訓、教育及夥伴關係計畫

企業價值

- 客戶解決方案
- 最廣泛的個人保護裝置和全球性支援
- 具有強大的技術專才，在應用程式、個人防護裝備優化和培訓
- 廣闊的管道的分佈全球服務所有本地市場需求
- 致力於垂直市場研究及企業級定制的安全計畫
- 從頭到腳保護

Product Mix

HFR



Electrical Safety



Respiratory



Body Protection



Above the Neck



Fall Protection



Honeywell
THE POWER OF CONNECTED

個人保護裝備

頭部保護



Spectacles



Goggles



Face Shield



Eye Wash



Helmet

聽力保護



Disposable



Reusable Earplugs



Earplugs Dispensers



Earmuffs

呼吸保護



SCBA



Dust Mask



Half Mask



Full Face



Filter/Canister



PAPR



AISIACOM



AE



Nuclear Protection

手部及身體



Chemical Resistance



Cut Resistance



Controlled Environment



Welding Application



Sleeve



Metal mesh



Heat Resistance



Cold Resistance



Chemical Protective Clothing



Chemical Protective Clothing



Chemical Protective Clothing



inflaming retarding Clothing



Arc Flash Protection Equipment



Fire Protective Clothing

腳部保護



Bacou X1



ECO



Otter



Tripper



Lancer



New Tripper



Rider



T2



T3



Sporty



PVC BOOTS



Heavy Duty Boots



EH Protection

防墜落



Harness



SRL



Confined Space



RDD



Engineering



Training Courses

帶電環境保護



Insulating Equipment



Insulating Gloves



Insulating Sleeve



Grounding Hot stick



HRC2 Arc Flash Protection Equipment



HRC2 Arc Flash Protection Equipment

消防



Clothing



Helmet



Gloves



SCBA



Head Gear



Boots

定制個人保護裝置方案

從頭到腳



服務及方案

培訓



輔導



分析



創新個人保護裝置方案



HIS 產品種類簡介



呼吸防護產品種類

Your source for a full line of respiratory protection

Wherever
your job takes you,

We'll keep
you in compliance. Call

Honeywell
THE POWER OF **CONNECTED**

產品總覽

- 即棄型口罩
- 重複使用防毒面具
- 供氣式防毒面具 (SAR)
- 電動供氣防毒面具 (PAPR)
- 緊急逃生呼吸器 (EBA)
- 獨立式呼吸器(SCBA)



时尚型即棄型口罩

产品展示 **Honeywell**

弹力耳带
纯棉质耳带，弹性好，粘连牢固，不易断

可调节鼻夹
高强度复合材料，可根据鼻形随意弯折，不易断

内层柔适鼻垫
特制海绵鼻垫，加强佩戴舒适性，增强口罩密合性

印花图案
霍尼韦尔独家印花图案，时尚的同时兼顾安全的防护

表面加强筋
表面半圆加强筋设计，保持口罩不易变形塌陷的同时增加美感

时尚七色款式



更舒适
3D立体工学设计
更贴合亚洲人脸型

更透气
呼吸及吸气阻力
远低于国家标准
(依据国家GB2626-2006标准)

更防霾
KN95专业防护级别
有效防护率≥95%

来自美国的百年品牌

畅销全球，足迹遍布70个国家

专家团队参与设计与研发

SCBA (Self Contained Breathing Apparatus)

■ NIOSH

■ NFPA



SCBA

- EN SCBA (Fenzy Aeris Series and Honeywell T8000 Series)



聽力保護

- Product Overview:

- 耳塞

- 一次性
- 多用性

- 耳罩

- 防噪音
- 噪音管理
- 微波收音



手部保護

- Product Overview:

- 防割傷傷害
- 防化學類傷害
- 防觸電
- 特別功用
- 鋼絲
- 即棄型



眼部保護

- Product Overview:

- 防護眼鏡
- 防護眼罩
- Face Shield & Visors
- 頭盔
- Clear Kits
- 洗眼水
- Laser Eyewear



墜落保護

- 產品概述：

- 安全帶
- 系繩
- 緩衝器
- 連接件
- 密封空間器具
- 救援裝置
- 防墜系統

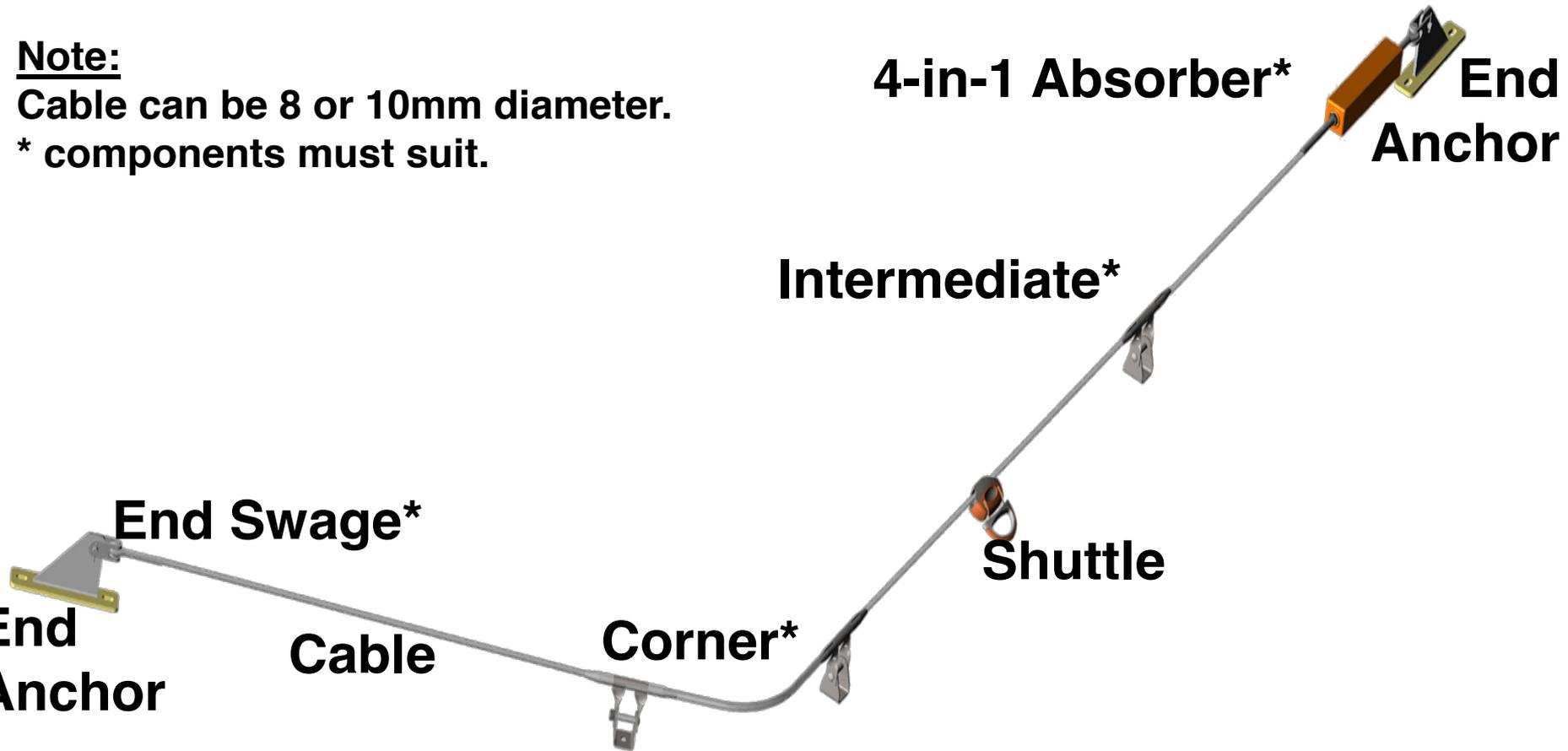


General Product Range (Fall Protection System)

Note:

Cable can be 8 or 10mm diameter.

* components must suit.



應用範圍

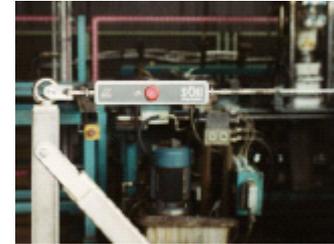


應用範圍

貨艙

工廠

其他高空作業



其他應用



天台作業
遊樂場



其他應用

機場



NFPA Certified Firesuits



Arc Flash protective Equipment



Rugged Structural and Proximity Helmets

■ EXTREMELY STRONG ■ INNOVATIVE ■ CUSTOM COMFORT FIT

Morning Pride® Gen 2 LR Low Rider Helmets

Traditional

- Features**
- Strongest shell on the market
 - Rugged and dependable
 - Lightweight
 - High heat performance
 - Protected suspension straps
 - More sizes, most adjustability
 - Low riding, good fitting, low center of gravity
 - Six-point suspension and wider interior give wearers superior comfort and fit
 - Headband/ratchet fits a wide range of hat sizes - from under size 6 to over size 8
 - Six-position depth adjustments provide more than an inch and a half depth difference at the front and at the rear, make it possible to fit any head with just a few quick and easy adjustments
 - Comfortable and easy to replace suspension
 - Two-piece padded-brow comfort cap and ratchet
 - Nomex® quick-release chinstrap with custom side
 - Large hang-up loop
 - Shell colors: black, white, red, yellow, orange, blue, green



Models
 HFL-SPR - Low Rider
 HFL-ECO - Low Rider
 HFL-SPR - Plus
 HFL-ECO - Plus



Models
 HFL-PRDX - Low Rider
 HFL-PRDX - Plus

Structural Models

- Double solid eagle level holder
- 4 1/2" 120° AFSC facefield
- Eight Roll-over line impacts
- Yellow Nomex® moisture barrier FR collar ear covers on SPR models and yellow Nomex® two-layer FR collar ear covers on ECO models

Plus Models

All the same features of the LR Low Rider models except the Plus models feature a eight-point suspension and the six-position suspension provides a full inch of adjustment for a quick and easy custom fit. The Plus models also feature a comfortable headband/ratchet cover.

Proximity Models

- 4 1/2" 120° goldcoat facefield
- Aluminum helmet cover and strap

Certification

- NFPA 1071

ADDITIONAL MODELS AVAILABLE



Morning Pride® Lite Force LR Low Rider Helmets

Modern

- Features**
- Strongest shell on the market
 - Rugged and dependable
 - Lightweight
 - High heat performance
 - Protected suspension straps
 - More sizes, most adjustability
 - Low riding, good fitting, low center of gravity
 - Six-point suspension and wider interior give wearers superior comfort and fit
 - Headband/ratchet fits a wide range of hat sizes - from under size 6 to over size 8
 - Six-position depth adjustments provide more than an inch and a half depth difference at the front and at the rear, make it possible to fit any head with just a few quick and easy adjustments
 - Comfortable and easy to replace suspension
 - Two-piece padded-brow comfort cap and ratchet
 - Nomex® quick-release chinstrap with custom side
 - Large hang-up loop
 - Shell colors: black, white, red, yellow, orange, blue, green



Models
 HFL-L-SPR - Low Rider
 HFL-L-ECO - Low Rider
 HFL-L-SPR - Plus
 HFL-L-ECO - Plus



Models
 HFL-L-PRDX - Low Rider
 HFL-L-PRDX - Plus

Structural Models

- 4 1/2" 120° AFSC facefield
- Five 1 1/2" 45° Roll-over line impacts
- Yellow Nomex® moisture barrier FR collar ear covers on SPR models and yellow Nomex® two-layer FR collar ear covers on ECO models

Proximity Models

- 4 1/2" 120° goldcoat facefield
- Aluminum helmet cover and strap

Certification

- NFPA 1071

Plus Models

All the same features of the LR Low Rider models except the Plus models feature a eight-point suspension and the six-position suspension provides a full inch of adjustment for a quick and easy custom fit. The Plus models also feature a comfortable headband/ratchet cover.

Protective Gloves and Hoods

■ COMFORT ■ DURABILITY ■ SELECTION

Honeywell Glove Kangaroo/Elk Fire Mate™

- Features**
- Kangaroo palm, elk back outer shell
 - Cordura® moisture barrier and Kevlar®/Nomex® liner
 - 3D palm
 - Wing thumb
 - Two-ply Nomex® scander wristed with leather cuff tab
 - Sizing: Sizes: XXS, XS, S, M, L, XL, XXL, XXXL

Certification

- NFPA 1071 and NFPA 1081



Model
 GL-0000 - White/Black

Honeywell Glove Thermo Cowhide

- Features**
- Thermo cowhide outer shell
 - Polyurethane moisture barrier and self-extinguishing fleece liner
 - 3D palm, wing thumb
 - Two-ply Nomex® scander wristed with leather cuff tab
 - Sizing: Sizes: XXS, XS, S, M, L, XL, XXL, XXXL
 - Cufflet Sizes: S, M, L, XL

Certification

- NFPA 1071



Model
 GL-1000 - White/Black

ADDITIONAL MODELS AVAILABLE

Honeywell Hood Pbi Blend

- Features**
- Face, shoulder, and chest
 - Natural fit face opening
 - Comfort top
 - Flatlock sewing

Certification

- NFPA 1071



Model
 HD-FCRBR - Brown

ADDITIONAL MODELS AVAILABLE



Honeywell Glove Aluminized/Elk Proximity

- Features**
- Elk palm, aluminized Poly Nomex® outer shell
 - Cordura® moisture barrier and self-extinguishing fleece liner
 - 3D palm
 - Wing thumb
 - Two-ply Nomex® scander wristed with leather cuff tab
 - Sizing: Sizes: XXS, XS, S, M, L, XL, XXL

Certification

- NFPA 1071



Model
 GL-SPR-TWA - White/Black

Honeywell Glove Elk

- Features**
- Elk outer shell
 - Polyurethane moisture barrier and self-extinguishing fleece liner
 - 3D palm
 - Wing thumb
 - 4 1/2" three-ply Kevlar® wristed with leather cuff tab
 - Sizing: Sizes: XXS, XS, S, M, L, XL, XXL

Certification

- NFPA 1071



Model
 GL-1000-ELK - White/Black

Honeywell Hood Nomex®

- Features**
- Face and chest
 - Natural fit face opening
 - Comfort top
 - Flatlock sewing
 - Notched shoulders

Certification

- NFPA 1071



Model
 HD-100-0200 - White



THE POWER OF CONNECTED

Ranger™ Series Rubber Firefighting Boots



Model
1000 Ranger™ Air

Performs like all the fire model, offers complete protection and lightweight control. Only rubber boot on the market utilizing athletic, aerospace material (inserted to boot), water-repellent (seams). A combination of natural rubber and butyl rubber ensures complete chemical protection to certified standards.

Certification
• NFPA 1971
• NFPA 1982
• Protocol TDP 60-2-201*



Model
1000 S 2011

Insulated (Model 1000) and non-insulated (Model 1000S) lightweight models feature Kevlar®/Nomex® lining and are equipped with a shingled sole for additional ladder-rung shoe protection. Romy steel toe provides extra comfort, and steel bottom plates and shanks offer unmatched impact/compression and puncture protection.

Certification
• NFPA 1971
• NFPA 1982
• Protocol TDP 60-2-201*



Model
1900

Insulated lightweight boot with wool felt lining. Romy steel toe provides extra comfort, and steel bottom plates and shanks offer unmatched impact/compression and puncture protection.

Certification
• NFPA 1971
• NFPA 1982



Model
2000

Non-insulated model featuring wool felt lining. Romy steel toe for extra comfort and impact/compression protection, and steel bottom plates and shanks offer unmatched puncture protection.

Certification
• NFPA 1971
• NFPA 1982

Honeywell



Model
2100

20-inch insulated top boot with wool felt lining.

Certification
This boot is not certified to any NFPA Standard.

Model	1000	1900	1900S	2000	2000S	2100
Height	12"	16"	16"	16"	16"	20"
Weight (in lbs approx)	8.5	7	7.1	8.8	8.7	8.7
Shoe Type	Yes	Yes	Yes	Yes	Yes	Yes
Insulated	Yes	Yes	Yes	No	No	Yes
Lining	Soaker Mesh	Kevlar®/Nomex®	Wool	Kevlar®/Nomex®	Wool	Wool
Shingled	No	Yes	No	Yes	No	No
Steel Toe, Plate, Shank	Yes	Yes	Yes	Yes	Yes	Yes
Molded Sole	Yes	Yes	Yes	Yes	Yes	Yes
Removable Insole	Yes	Yes	Yes	Yes	Yes	Yes
NFPA 1971	Yes	Yes	Yes	Yes	Yes	No
NFPA 1982	Yes	Yes	Yes	Yes	Yes	No
Military HEZ	Yes	Yes	No	No	No	No
AFT Recoded	Yes	Yes	Yes	Yes	Yes	No
Made in North America	Yes	Yes	Yes	Yes	Yes	Yes

Width: Narrow, Medium, Wide Full Sizes 6 to 16 (Model 2000 wide widths only)

*Optional weight-rated protection against Molotov HC agent. Protocol TDP 60-2-201. *Penetration and permeation testing on permeable and impermeable materials with chemical agents simulants. *Heated latently. Models 1900 and 1900S only.

PRO Series Leather Firefighting Boots



Model
2000

Features
• 14" tall on structural boot
• Goodyear welt construction
• Vibram® lug sole
• Premium full-grain military A2 leather
• Full Crossitch® moisture barrier boot with 1.5 or 2.0 oz. virgin Kevlar® full thermal barrier and Carbelle® fabric liner
• Silicone-impregnated leather toe cap
• Oblique steel toe, bottom plate, and shank
• Thermoplastic heel counter
• APT Recoded - departmental NFPA 1971 lacing
• Width C
• Full sizes 6-14
• Half sizes 6-10 1/2
• Widths D, E, EE
• Full sizes 6 to 16
• Half sizes 6 1/2 to 12

Certification
• NFPA 1971



Model
2000

Features
• 10" tall on structural boot
• Goodyear welt construction
• Reflective wrap-around welt
• Vibram® lug sole
• FRI rubber Powerflex™
• Premium full-grain military A2 leather
• Calender®/Nomex® quarter panels
• Full Crossitch® moisture barrier boot with 1.5 or 2.0 oz. virgin Kevlar® full thermal barrier and Carbelle® fabric liner
• Steel toe, bottom plate, and ladder shank
• Thermoplastic heel counter
• APT Recoded - departmental NFPA 1971 lacing
• Widths D, EE, EEE
• Full sizes 6 to 14
• Half sizes 6 1/2 to 12

Certification
• NFPA 1971, NFPA 1982 and NFPA 1971 (optional)



Model
2000

Features
• 8" tall on wildland boot
• Goodyear welt construction
• Vibram® Clydesdale outdoor lug sole
• Premium full-grain water resistant leather
• Carbelle® fabric boot liner
• 1.5" padded collar with pull tabs for easy donning
• Speed-lace lacing system
• Removable cushioned insert
• Triple-edge fiberglass ladder shank
• Thermoplastic heel counter
• APT Recoded - departmental NFPA 1971 lacing
• Widths Narrow, Medium, Wide
• Full sizes 6 to 16
• Half sizes 6 1/2 to 12

Certification
• NFPA 1977

Gear Bag



Model
SAC5

• 20" x 14" x 17"
• 0.2 cubic foot capacity
• Durable (nylon) and
• Outside zipper pocket
• Heavy-duty non-locking zippers
• Heavy-duty polyethylene webbing
• Multiple colors
• Available in navy blue, royal blue, and black

Suspenders



Model
SP-05G

• Heavy-duty web elastic with metal hooks
• Metal adjuster stays

ADDITIONAL MODELS AVAILABLE

Honeywell

Honeywell

THE POWER OF CONNECTED

工業安全集團典型客戶

氣體檢測



個人防護



氣體傳感

