DASTEC | Sensepint XRL

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Introducing Sensepoint XRL

- Designed for industrial applications
    - Rugged housing
    - Hazardous area approved
    - High-visibility version
- Easy installation
    - Simply 4-bolt fixing
- Straightforward maintenance
    - Event log and diagnostics
    - Simple sensor replacement
- Connected technology
    - Bluetooth link to smartphone and app
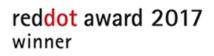- Tangible customer value

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Design meets Quality

- **Choice of colours**
  - Charcoal finish to blend with the environment
  - High visibility where the gas detector needs to be very visible.
- **User experience at the core of the design**
  - Quality design, quality product
  - iF Design Award received
  - Reddot Award winner

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Sensepoint XRL Key Features

- Simple installation
  - Two cable entries, one on each side.
  - M20 (ATEX/IECEx), ¾"NPT (UL/CSA)
- Easy installation
  - Simple 4 bolt fixing
  - Removable electronics module
  - Pluggable connectors
  - Internal and external grounding points
- Bluetooth (BLE) connectivity
  - Interact with Sensepoint XRL using wireless smart devices

- Simplified maintenance
  - Use an app to manage the detector
  - Non-intrusive configuration and maintenance
  - No hot work permit
  - Bright multi-coloured indicator clearly shows detector status
  - Range of diagnostic tools
- Instant reporting
  - Create a PDF calibration report…
  - …or CSV file
  - Share instantly with the customer
  - Save hours of admin effort

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Current Loop (mA) Versions

- Analogue (4~20mA) to dedicated controller
  - Point-to-point wiring or "home run"
  - All detectors mA output (no specific mV input module required for cat flam)
- 0~22 mA current loop
- One product covers detector sink and source
  - Selectable using single switch on back of electronics module
- Inhibit level selection
  - Select between 2 mA or 4 mA (or 17.4 mA for O_2 versions)
- Facility to common the ground connections of power supplies
- Current loop resistance 33 to 250 Ω
- Open current loop fault detection

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Modbus Versions

- Commonly used in parking garages
- Saves on cable costs
- Reduces installation costs
- Multi-drop wiring
  - Connect up to 32 detectors to one Modbus channel
  - 301C supports up to 96 detectors as standard, expandable to 120.
- Utilises 'auto detect' function of 301C
  - 301C can search for connected detectors and configure the system automatically
  - Makes set-up of the system simple
- Similar Modbus register to XCD
- 4-wire connection (A, B, +V, 0V)
- Dedicated connectors for loop-in/loop-out
- Modbus parameter set up via the Bluetooth interface and app

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Sensepoint XRL Visual Indicator

- Four-colour ultra-bright LED indicator
- See detector status at a glance
- Solid or flashing colour used to show the status of the detector
- Choice of behaviour for 'normal' condition through using the App
  - Have detector give a green 'confidence flash' every 20 seconds (default setting)
  - Be permanently on
  - Be permanently off

Sensepoint XRL Visual Indicator

- **Green**
  - Sensor is in normal condition
  - 4 mA or above but below alarm set point
  - Normal condition can be set off using mobile app

- **Blue**
  - Pairing with a mobile device in progress (flashing)
  - Connection established and detector in Normal condition (solid)
  - Display reverts to relevant colour for non-normal state

- **Red**
  - Gas concentration above the set alarm threshold (flashing)
  - Threshold can be set using mobile app
  - 5% and 100% of FSD

- **Yellow**
  - Maintenance
  - Sensor is in fault condition (flashing)
  - Sensor is in inhibit condition (solid)

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Sensepoint XRL Ease of Installation

	Simply fitting of housing • 4 bolt fixing through foot plate
	Pluggable electronics module • Flip-up handle for easy removal • Pull out the electronics module to access wiring connectors in bottom
	Pluggable connectors • 1 x 4-way connector (mA versions) • 2 x 4-way connector (Modbus versions) • Remove connectors to allow easier access for making final connections

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Gases and Ranges

Gas	Detector Type	User Selectable Range	Default Range	Steps	Default Cal Point	Response Time t90 (s)	Resolution
Oxygen	SPLIO1……..	Fixed, 25.0% vol	25.0% vol	N/A	20.9% vol	<30	0.1% vol
Flammable (cat)	SPLIF6……..	20 to 100% LEL	100% LEL	10% LEL	50% LEL	<30	1% LEL
Carbon Monoxide	SPLIC1……..	50 to 1000 ppm	300 ppm	10 ppm	100 ppm	<30	1 ppm
Hydrogen Sulfide (low range)	SPLIH1……..	10.0 to 50.0 ppm	50.0 ppm	1.0 ppm	25.0 ppm	<30	0.1 ppm
Hydrogen Sulfide (high range)	SPLIH2……..	50 to 200 ppm	100 ppm	10 ppm	25 ppm	<30	1 ppm
Hydrogen	SPLIG1……..	1000 ppm only	1000 ppm	n/a	500 ppm	<90	1 ppm
Nitrogen Dioxide	SPLIN1……..	5.0 to 50.0 ppm	20.0 ppm	5.0 ppm	5ppm	<30	0.1 ppm

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Sensepoint XRL Accessories

- Calibration Adaptor
  - Provides means to apply calibration gas
  - Accepts 6 mm OD/4 mm ID tube

- Duct Mount Kit
  - Allows the Sensepoint XRL to be mounted to a duct
  - Attaches to the accessory thread on the sensor cover

- Flow Adaptor
  - For use where the Sensepoint XRL will be used in a sampling system
  - Accepts 6 mm OD/4 mm ID tube

- Pipe/Pole Mount Kit
  - Allows the Sensepoint XRL to be mounted to a pipe or pole
  - Uses same Duct Mount Kit as HALO

- Collection Cone
  - For detection of lighter-than-air gases
  - Uses same collection cone as Sensepoint XCD
  - Order with Weather Protection

- Weather Protection
  - Use in wet environments

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Sensepoint XRL Bluetooth® Interface

- Bluetooth Low Energy (BLE)
- Requires Bluetooth 4.0 or above on the mobile device
- 1 mW transceiver
- Integrated design
- Enhanced security features
    - Encrypted to AES128 (same as that used by on-line banking)
    - Certificate based, mutual authentication between mobile device and Sensepoint
- Wireless approvals in all key regions/countries
- Bluetooth® SIG registered

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Sensepoint App

- What is it?
    - Sensepoint App is a mobile app that can be used to connect to and allows the user to interact with Sensepoint
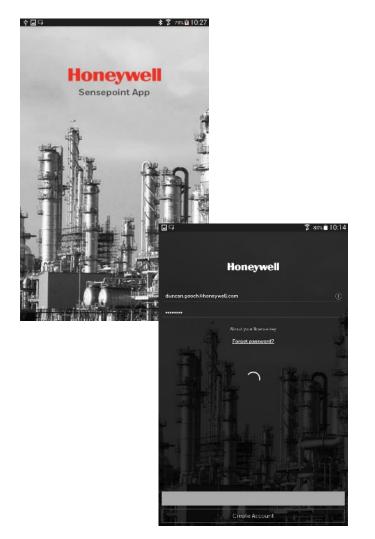
- How do I get it?
    - The core Sensepoint App can be obtained free-of-charge from Google Play

- What devices are compatible with Sensepoint App?
    - Compatible smart devices running Android 4.3 or above

- What can I do with it?
    - Configure the Sensepoint including range, units of measurement, alarm level, LED behaviour

- Is it secure?
    - Honeywell Cyber Security experts have been engaged in the development from an early stage to assess and mitigate the threats
    - Fundamental security is assured by a certificate-based system meaning only authorised smart devices and users can communicate with certain Sensepoint units.
    - AES128 encryption (the same as is used for internet banking) provides resistance against hacking.
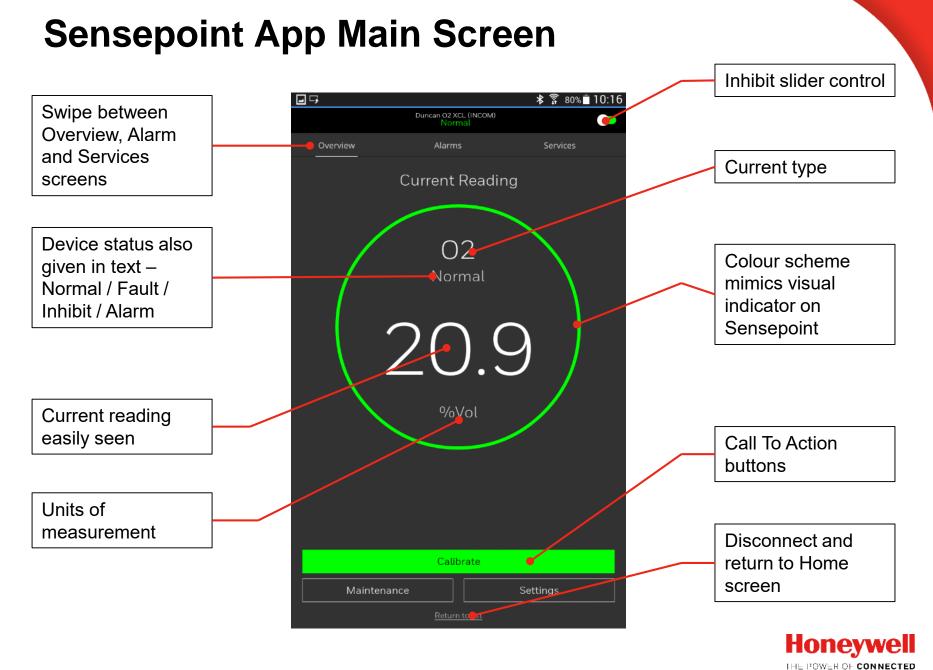
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Sensepoint App Start Up

- In order to use the app, users must register
    - E-mail address
    - Password
    - Name
- Confirmation e-mail is sent
- Once link is clicked, certificate is downloaded to that mobile device
- User must register at least one Sensepoint XRL device to get full access to the app functions
- Must be performed when an internet connection is present.

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Sensepoint App Main Screen

Swipe between Overview, Alarm and Services screens

Device status also given in text – Normal / Fault / Inhibit / Alarm

Current reading easily seen

Units of measurement

Inhibit slider control

Current type

Colour scheme mimics visual indicator on Sensepoint

Call To Action buttons

Disconnect and return to Home screen
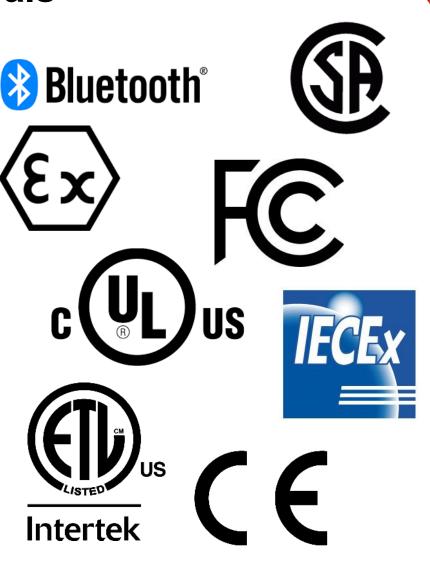
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Certification and Approvals

- Core/HazLoc
  - EN 50270: 2015 (EMC)
  - IEC/EN/UL 61010-1
  - CSA22.2 No. 61010-1 & No. 152
  - ATEX
    - Ex db IIC T6 Gb (-40 to + 65 °C)
    - Ex tb IIIC T85°C Db
  - IECEx
    - II 2 G Ex db IIC T6 Gb (-40 to + 65 °C)
    - II 2 D Ex tb IIIC T85°C Db
  - cULus
- Performance
  - UL2075 (ETL)
- Wireless
  - RED (radio equipment directive)
  - FCC
  - Bluetooth® SIG
  - Wireless approvals on all major countries

http://teams.honeywell.com/sites/HA_EMEAI_Regulatory/default.aspx

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Q&A

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