GAS DETECTION
OELD

Bluetooth–enabled Local Display
for Searchline Excel and Searchpoint Optima Plus

Honeywell

MAINTENANCE
FROM THE PALM
OF YOUR HAND

Bluetooth–enabled local display for Searchpoint Optima Plus and Searchline Excel

The Optima Excel Local Display (OELD) is a smart junction box for the Searchpoint Optima Plus and Searchline Excel infrared detectors for flammable hydrocarbons. The OELD includes an LCD screen for gas information, a "traffic light" indicator for at-a-glance detector status, and Bluetooth® connectivity for simplified, non-intrusive maintenance. Simply pair the OELD with our intrinsically safe, ruggedized smartphone; then use the OELD smartphone app to interact with the gas detector from up to 10 meters (30 feet) away. For maximum flexibility, the gas detector can be mounted either directly or remotely to OELD to suit any situation.

SIMPLIFIED MAINTENANCE WITH FAMILIAR SMARTPHONE TECHNOLOGY

When you pair a smartphone with OELD, you can perform many tasks for your Searchpoint Optima Plus and Searchline Excel detectors wirelessly and from a convenient position.

Use the OELD mobile app to specify the target gas, configure alarm set points, perform one-man calibrations, access event logs, perform diagnostics, check detector status and more — with no need to go back and forth to the control room, or open the enclosure on your gas detector. That means no hot-work headaches like obtaining permits, declassifying the area or adding more manpower.

For detectors in hard-to-reach locations such as a duct, you can position the corresponding OELD remotely in an easy-to-access location and use the OELD smartphone app to interact with the detector wirelessly.

FEATURES

- Robust aluminium or stainless steel housing
- Worldwide approvals for hazardous areas including ATEX, IECEx, cULus
- Green/yellow/red/blue multi-colour backlight to show status
- Bluetooth® (BLE) range up to 10 m (30 feet)
- Ingress protection IP66 / Type 4X

- Assessed to have no effect on functional safety of connected gas sensor
- Backward compatible with all versions of Searchpoint Optima Plus and Searchline Excel
- Secure access to OELD units can be easily managed by a primary user via the OELD app
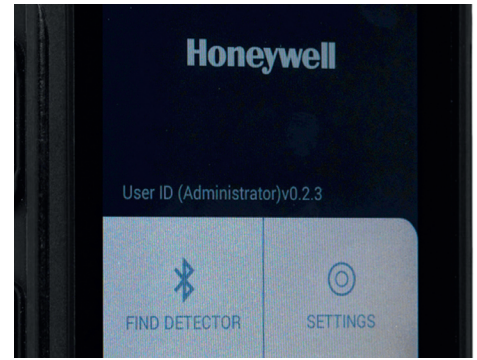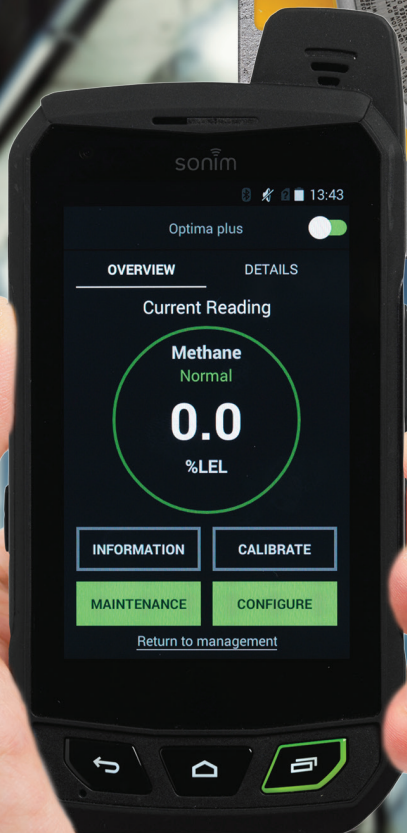
AT-A-GLANCE VISIBILITY

OELD has bright indicator lights visible from a distance, where green indicates normal operation, yellow indicates a fault or maintenance and red indicates an alarm. The LCD screen clearly displays real-time readings on detector status, including the gas being monitored, the local gas concentration and units of measurement — so you have easy access to status information.

GAS DETECTION THAT FITS THE WAY YOU WORK

The OELD smartphone app delivers the familiar user experience you expect — combined with gas detection technology designed to keep you safe while making your job easier. It simplifies detector maintenance and is acost-effective way to get even more value from your Searchpoint Optima Plus or Searchline Excel gas detectors.

NOW YOU CAN REDUCE TIME AND COST by managing maintenance from your smartphone — with at-a-glance assurance of your gas safety.

EASE OF MAINTENANCE

- Simplified maintenance with familiar smartphone technology
- Non-intrusive interaction to reduce time and safety risk
- Easy access to hard-to-reach detectors
- Know before you go pre-empt maintenance issues

LOCAL VISIBILITY OF SAFETY ISSUES

- Bright "traffic light" indicator for safety awareness
- Easier to locate a unit in fault/warning
- Real-time gas readings

OELD SPECIFICATION

MATERIAL	Marine-grade aluminium alloy or 316 stainless steel with 5-coat painted finish
WEIGHT	Aluminium version 2.3 kg (5 lb), stainless steel version 5.0 kg (11 lb)
DIMENSIONS	159 x 197 x 114 mm (6 ¼ x 7 ¾ x 4 ½ inch)
CABLE ENTRIES	5 x M25 (ATEX/IECEx version) or 5 x ¾" NPT (cULus version). One reserved for sensor connection. 3 blanking plugs supplied for unused entries.
TERMINATION	2 x pluggable rising-clamp type for connection to gas detector and field wiring. Accepts cable sizes of 0.5 to 2.5mm2, 12 to 28 AWG
STORAGE TEMPERATURE	-40 to +65 °C (-40 to 149 °F)
OPERATIONAL TEMPERATURE	-40 to +65 °C (-40 to 149 °F) -60 to +65 °C (-76 to 149 °F) (CU TR-EX version only)
HUMIDITY	0 to 99% RH (non-condensing)
DISPLAY	LCD module showing digital readout of sensor output, bar chart representation, units of measurement, status icons for alarm, maintenance and active Bluetooth connection. Magnetic switch interface.
CONFIGURABLE DISPLAYED INFORMATION	Displayed information fully user-configurable using the OELD mobile app. Units of measurement selectable from: • %LEL, %VOL, ppm, kppm, mg/m3, g/m3 (point detectors) • LEL.m, ppm.m (open path detectors) • mA, A, dB, DBA (other) Gas name (up to 4 alpha-numeric characters) Measurement range
VISUAL INDICATION	Green/yellow/red/blue multi-colour backlit display for indication of detector and OELD status. Green (normal) indication can be disabled via app.
POWER SUPPLY	18 to 32 Vdc (24 Vdc nominal), <2 W
INTERFACES	Bluetooth® (BLE) non-intrusive connection to suitable mobile device running the OELD mobile app. Range up to 10 m (30 feet) (mobile device dependant) Internal RS-485 connection to Searchpoint Optima Plus or Searchline Excel via SHC-1 through the SHC Protection Device 3 switch magnetic interface using the tool provided
COMPATIBLE GAS DETECTORS	Searchpoint Optima Plus. Searchine Excel, Searchline Excel Cross-Duct, generic 4 to 20 mA devices
ENVIRONMENTAL PROTECTION	IP66 / Type 4X (in accordance with NEMA 250)
CORE APPROVALS	EN 50270: 2015 (EMC) IEC/EN/UL/CSA 61010 (Electrical Safety)

OELD SPECIFICATION

SAFETY APPROVALS	ATEX/IECEx (Ex d version) DEMKO 16 ATEX 1693X IECEx [UL 16.0066X] ⟨Ex⟩ II 2 GD Ex db IIC T6 Ex tb IIIC T85 °C Tamb -40 to +65 °C EN 60079-29-1 Approved Accessory	ATEX/IECEx (Ex e version) DEKRA 17 ATEX 0006X DEK 17.0011X ⟨Ex⟩ II 2 GD Ex eb mb [ia] IIC T5 Gb Ex tb IIIC T100 °C Tamb -40 to +65 °C EN 60079-29-1 Approved Accessory
	cULus [E484838] Class I, Div 1, A, B, C & D Class II, Div 1 F & G, Class III, Div 1 Tamb -55 to +65 °C Temp Code T6 Class I, Zone 1, AEx d IIC T6 Class I, Zone 21, AEx tb IIIC T6 ISA 60079-29-1	
	CU TR-Ex (Russian Customs Union), Tamb -60 to +65 °C Inmetro NEPSI+ PESO+	
MARITIME APPROVALS	Type approved to DNV, BV+, Lloyds+, ABS, EN 60945 (EMC) IEC 60092-504	
OTHER APPROVALS	Bluetooth Certified, Radio Equipment Directive (RED), FCC+, country-specific wireless approvals	
BLUETOOTH COMMUNICATION SECURITY	Certificate-based mutual authentication Encryption to AES128	

+Flameproof versions only.

HONEYWELL GAS DETECTION

Honeywell is able to provide gas detection solutions to meet the requirements of all applications and industries. Contact us in the following ways:

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