# GAS DETECTION OELD

## Bluetooth-enabled local display for Searchline Excel and Searchpoint Optima Plus

| 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).<br>One reserved for sensor connection.<br>3 blanking plugs supplied for unused entries. |
| **TERMINATION** | 2 x pluggable rising-clamp type for connection to gas detector and field wiring.<br>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)<br>-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.<br>Units of measurement selectable from:<br>• %LEL, %VOL, ppm, kppm, mg/m3, g/m3 (point detectors)<br>• LEL.m, ppm.m (open path detectors)<br>• mA, A, dB, DBA (other)<br>Gas name (up to 4 alpha-numeric characters)<br>Measurement range |
| **VISUAL INDICATION** | Green/yellow/red/blue multi-colour backlit display for indication of detector and OELD status.<br>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.<br>Range up to 10 m (30 feet) (mobile device dependant)<br>Internal RS-485 connection to Searchpoint Optima Plus or Searchline Excel via SHC-1 through the SHC Protection Device<br>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)<br>IEC/EN/UL/CSA 61010 (Electrical Safety) |

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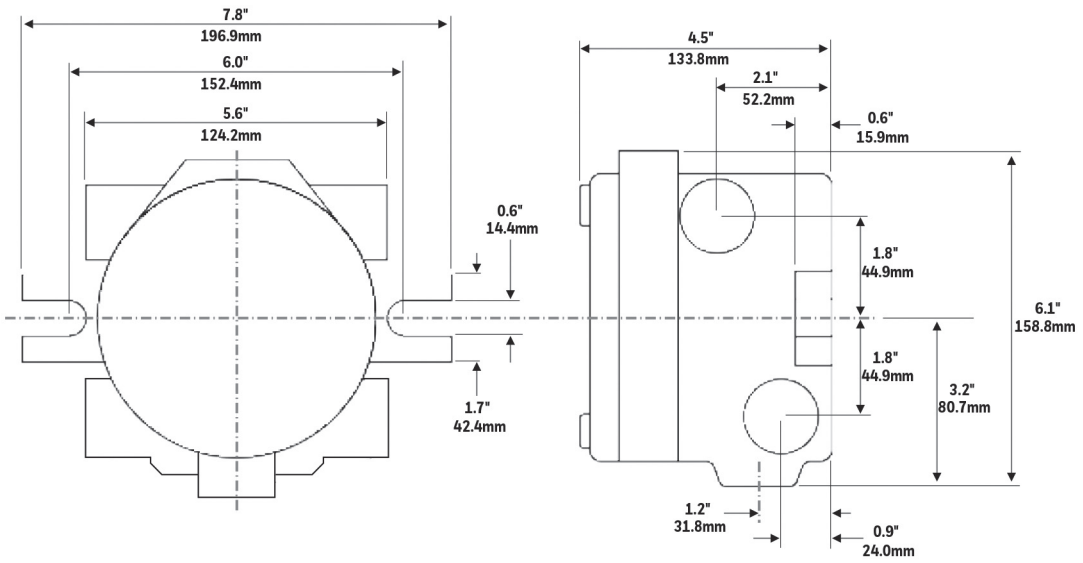
## OELD SPECIFICATION

| | | |
|---|---|---|
| | ATEX/IECEx (Ex d version)<br>DEMKO 16 ATEX 1693X<br>IECEx [UL 16.0066X]<br>Ex II 2 GD<br>Ex db IIC T6<br>Ex tb IIIC T85 °C<br>Tamb -40 to +65 °C<br>EN 60079-29-1 Approved Accessory | ATEX/IECXEx (Ex e version)<br>DEKRA 17 ATEX 0006X<br>DEK 17.0011X<br>Ex II 2 GD<br>Ex eb mb [ia] IIC T5 Gb Ex tb IIIC T100 °C<br>Tamb -40 to +65 °C<br>EN 60079-29-1 Approved Accessory |
| **SAFETY APPROVALS** | cULus [E484838]<br>Class I, Div 1, A, B, C & D<br>Class II, Div 1 F & G, Class III, Div 1<br>Tamb -55 to +65 °C<br>Temp Code T6<br>Class I, Zone 1, AEx d IIC T6<br>Class I, Zone 21, AEx tb IIIC T6<br>ISA 60079-29-1 | |
| | CU TR-Ex (Russian Customs Union), Tamb -60 to +65 °C<br>Inmetro<br>NEPSI+<br>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<br>Encryption to AES128 | |

+Flameproof versions only.

## OELD DIMENSIONS





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