## Honeywell

## Searchpoint Optima Plus SPECIFICATIONS



| Searchpoint Optima Plus Speci                           | fication   |  |
|---|--|--|
| Use   | Searchpoint Optima Plus is an advanced, Point-Infrared, flammable gas detector certified for use in potentially explosive atmospheres  |  |
| Measuring Range   | 0-100% LEL, wide selection of Hydrocarbon gas and vapor calibrations. Different measuring ranges and solvent calibrations available for specialist applications  |  |
| Signal Output   | 4-20mA autosensing sink or source  |  |
| Inhibit   | 1-3mA (Default 2mA)  |  |
| Warning   | 0-6mA (Default 3mA *)  |  |
| Fault   | OmA (HART® units adjustable to 1mA)  |  |
| Over Range  | 20-21.5mA (Default 21mA)   |  |
| Digital Output  | Optional Multidrop Modbus RS485 (via DX100(M)), Optional HART® over 4-20mA output (HART® version 7)  |  |
| Material  | 316 stainless steel  |  |
| Weight  | 1.6kg  |  |
| Accuracy  |  |  |
| Optima Plus (Hydrocarbon)<br>Optima Plus (Ethylene)     | Baseline < ±1% FSD, 50% FSD <±2% FSD<br>Baseline < ±2% FSD, 50% FSD <±3% FSD   |  |
| Repeatability   | < ±2% FSD at 50% FSD   |  |
| Linearity   | < 5% FSD   |  |
| Response Time   | T50 < 3 seconds, T90 < 4 seconds (methane)   |  |
| <b>Operational and Certified</b>                        | -40°C to +65°C temperature range   |  |
| Long Term Stability<br>(as defined in<br>EN 60079-29-1) | Baseline   | Methane 100 %LEL Range: $\leq \pm 2$ %FSD<br>Ethylene 100 %LEL Range: $\leq \pm 4$ %FSD                    |
|   | 50 %FSD  | Methane 100 %LEL Range: $\leq \pm 4$ %FSD<br>Ethylene 100 %LEL Range: $\leq \pm 5$ %FSD                    |
| Drift Over Temperature<br>Range (-40 °C to 65 °C)       | Baseline   | $\leq \pm 2$ %FSD  |
|   | 50 %FSD  | Methane 100 %LEL Range: $\leq \pm 0.131$ %FSD per °C Ethylene 100 %LEL Range: $\leq \pm 0.078$ %FSD per °C |
| Variation with Pressure                                 | 0.1% (of reading) per mbar   |  |
| Power Supply  | 18-32Vdc (24Vdc nom), < 4.5W max   |  |
| Environmental Protection                                | IP 66 / 67   |  |
| Diagnostics<br>(and Re-calibration)                     | Via certified Hand-held Interrogator, or optional HART <sup>®</sup> communications   |  |
| Safety Approvals  | UL / CSA: Class 1, Div 1, groups B, C, and D (-40°C to +65°C)<br>IECEx: Ex d IIC tb IIIC T86°C (T <sub>amb</sub> -40°C to +55°C) or T96°C (T <sub>amb</sub> -40°C to +65°C) IP66/67<br>ATEX: BAS99ATEX2259X<br>II 2 GD Ex d IIC Gb Ex tb IIIC Db<br>T96°C (T <sub>amb</sub> -40°C to +65°C)<br>T86°C (T <sub>amb</sub> -40°C to +55°C)<br>IP 66/67 |  |
| Performance Approvals<br>Functional Safety              | CSA C22.2 152., FM ANSI/ISA-12.13.01., EN 60079-29-1 (BVS 03 ATEX G 016 X)<br>IEC61508 Safety Integrity Level 2  |  |
| EMC Compliance<br>Software                              | EN 50270:2006<br>EN 50271:2010   |  |

\* Note for ATEX compliance the warning value should not be set between 3 and 5mA

## Find out more

www.honeywellanalytics.com Toll-free: 800.538.0363

## Please Note:

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