Honeywell Honeywell Series Service Manual

2108B2001N

1. Description

2108B2001N

3. Product Information

www.autronexa.com

2108B2001N | Honeywell Hydrocarbon Searchpoint Optima Plus, ATEX

Part Number: 2108B2001N

Model: Hydrocarbon Searchpoint Optima Plus, ATEX

Brand: Honeywell

Condition: New & Original in Factory Packing

Factory Warranty: 12 Months

Searchpoint Optima Plus Infrared Flammable Gas Detector Hydrocarbon Searchpoint Optima Plus, ATEX

Infrared point hydrocarbon gas detector certified for use in potentially explosive atmospheres

Features & Benefits:

Over 100,000 units installed worldwide

Improved reliability

Fast speed of response

IEC61508 Safety Integrity Level 2 independently assessed by TÜV

Quick Specifications:

Material: 316 stainless steel

Response time: T50 < 3 seconds, T90 < 4 seconds (methane)

Operational and certified: -40° to + 65°C temperature range

Searchpoint Optima Plus Specification

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 0mA (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

www.autronexa.com

Optima Plus (Hydrocarbon) Baseline < ±1% FSD, 50% FSD <±2% FSD

Optima Plus (Ethylene) 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)

Operational and Certified -40°C to +65°C temperature range

Long Term Stability

(as defined in

EN 60079-29-1)

Baseline Methane 100 %LEL Range: ≤ ± 2 %FSD

Ethylene 100 %LEL Range: ≤ ± 4 %FSD

50 %FSD Methane 100 %LEL Range: ≤ ± 4 %FSD

Ethylene 100 %LEL Range: ≤ ± 5 %FSD

Drift Over Temperature

Range (-40 °C to 65 °C)

Baseline ≤ ± 2 %FSD

50 %FSD Methane 100 %LEL Range: ≤ ± 0.131 %FSD per °C

Ethylene 100 %LEL Range: ≤ ± 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 Via certified Hand-held Interrogator, or optional HART® communications

(and Re-calibration)

Safety Approvals UL / CSA: Class 1, Div 1, groups B, C, and D (-40°C to +65°C)

IECEx: Ex d IIC tb IIIC T86°C (Tamb -40°C to +55°C) or T96°C (Tamb -40°C to +65°C) IP66/67

ATEX: BAS99ATEX2259X

II 2 GD Ex d IIC Gb Ex tb IIIC Db

T96°C (Tamb -40°C to +65°C)

T86°C (Tamb -40°C to +55°C)

IP 66/67

Performance Approvals CSA C22.2 152., FM ANSI/ISA-12.13.01., EN 60079-29-1 (BVS 03 ATEX G 016 X)

Functional Safety IEC61508 Safety Integrity Level 2

EMC Compliance EN 50270:2006

Software EN 50271:2010

www.autronexa.com