

**Question / Problem:** Is Optima Plus 2108B2101N or BH170RZ a valid, orderable part number?

Environment

- Optima Plus
- Fixed
- Poole
- 2108B2101N
- BH170RZ
- BH170RZ UK
- BH170RZUK
- BH17 0RZ UK

**Answer / Solution**

The P/N 2108B2101N or BH170RZ is a raw material part number which cannot be ordered by itself, it is an internal assembly part number that is shown on all the Optima Plus labeling band.

To determine the orderable part number and calibration curve part number of an existing Optima Plus, you need to contact Instrumart Technical Support at 800-235-8367, and provide the S/N serial number that is on the label:



Turnaround time for an orderable part based on serial number is 2-3 business days.

If you can't get the serial number of the device, you will need to select part number for the Optima Plus and the Calibration curve to order. Please find below the Optima Plus part numbers for **UL/INMETRO Hydrocarbon gases**.

## Hydrocarbon Instruments

**Note: A compatible calibration gas curve must be ordered with every Optima Plus. Please refer to the next section for available calibrations.**

- **2108N4100N:** Optima Plus Gas Detector, hydrocarbon version, 4 to 20mA output, UL/INMETRO, 3/4" NPT thread spigot, electro polished 316SS, includes polyester mesh dust barrier, nylon weather protection housing and LNP Faradex deluge/sunshade
- **2108N4100H:** Optima Plus Gas Detector, hydrocarbon version, HART® over 4 to 20mA output, UL/INMETRO, 3/4" NPT thread spigot, electro polished 316SS, includes polyester mesh dust barrier, nylon weather protection housing and LNP Faradex deluge/sunshade
- **2108N4110N:** Optima Plus Gas Detector, hydrocarbon version, 4 to 20mA output, UL/INMETRO, 3/4" NPT thread spigot, electro polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather protection housing and LNP Faradex deluge/sunshade
- **2108N4110H:** Optima Plus Gas Detector, hydrocarbon version, HART® over 4 to 20mA output, UL/INMETRO certified, 3/4" NPT thread spigot, electro polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather protection housing and LNP Faradex deluge/sunshade
- **2108N5100N:** Optima Plus Gas Detector, hydrocarbon version for sampling systems, 4 to 20mA output, UL/INMETRO, 3/4" thread spigot, electro polished 316SS, includes black anodized aluminum flow housing
- **2108N5100H:** Optima Plus Gas Detector, hydrocarbon version for sampling systems, HART® over 4 to 20mA output, UL/INMETRO, 3/4" thread spigot, electro polished 316SS, includes black anodized aluminum flow housing
- **2108N5110N:** Optima Plus Gas Detector, hydrocarbon version, 4 to 20mA output, UL/INMETRO, 3/4" thread spigot, electro polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather housing and LNP Faradex deluge/solar sunshade. Only use with gas calibrations 0 to 100%v/v Methane (2108D3050), 0 to 400,000ppm propane (2108D3100) or 0 to 600,000 ppm propane (2108D3102)
- **2108N5110H:** Optima Plus Gas Detector, hydrocarbon version, HART® over 4 to 20mA output, UL/INMETRO, 3/4" thread spigot, electro polished 316SS, includes pre-fitted remote gassing cell, polyester mesh dust barrier, nylon weather housing and LNP Faradex deluge/solar sunshade. Only use with gas calibrations 0 to 100%v/v Methane (2108D3050), 0 to 400,000ppm propane (2108D3100) or 0 to 600,000 ppm propane (2108D3102)

### 14.7 Additional Gases or Gas Ranges That Can Be Detected Using Optima Plus

Target Gas	Optima Plus Gas Reference Calibration	Target Gas	Optima Plus Gas Reference Calibration
152A Difluoroethane (C <sub>2</sub> H <sub>4</sub> F <sub>2</sub> )	Band C	Difluoroethane (C <sub>2</sub> H <sub>4</sub> F <sub>2</sub> )	Band B
Aeron A-31 isobutane (C <sub>4</sub> H <sub>10</sub> )	Butane (C <sub>4</sub> H <sub>10</sub> )	Dimethyl ether (C <sub>2</sub> H <sub>6</sub> O)	Butane (C <sub>4</sub> H <sub>10</sub> )
Aeron A-46 LPG (C <sub>3</sub> H <sub>8</sub> )	Butane (C <sub>4</sub> H <sub>10</sub> )	Ethylene dichloride (EDC)	Band D
Allyl alcohol (C <sub>3</sub> H <sub>6</sub> O)	Band C	Ethylene oxide (C <sub>2</sub> H <sub>4</sub> O)	Band C
Amyl alcohol (C <sub>5</sub> H <sub>11</sub> OH)	Band C	IsoButylene (C <sub>4</sub> H <sub>8</sub> )	Band B
Benzene (C <sub>6</sub> H <sub>6</sub> )	Ethylene (C <sub>2</sub> H <sub>4</sub> ) 0-100% LEL	Iso-hexane (C <sub>6</sub> H <sub>14</sub> )	Hexane (C <sub>6</sub> H <sub>14</sub> ) 0-100 LEL
Butadiene dimer (C <sub>8</sub> H <sub>12</sub> )	Ethylene (C <sub>2</sub> H <sub>4</sub> ) 0-100% (leak detection only)	Methyl ethyl ketone (C <sub>4</sub> H <sub>8</sub> O)	Butanone (C <sub>4</sub> H <sub>8</sub> O) 0-100% LEL
Butadiene-1,2 (C <sub>4</sub> H <sub>6</sub> )	Ethylene (C <sub>2</sub> H <sub>4</sub> ) 0-100% (leak detection only)	Polypropylene ((C <sub>3</sub> H <sub>6</sub> ) <sub>n</sub> )	Propylene ((C <sub>3</sub> H <sub>6</sub> ) <sub>n</sub> ) 0-100% LEL
Butene (C <sub>4</sub> H <sub>8</sub> )	Band C	Styrene (C <sub>8</sub> H <sub>8</sub> )	Ethylene (C <sub>2</sub> H <sub>4</sub> ) 0-100% LEL (leak detection only)
Cyclopentane (C <sub>5</sub> H <sub>10</sub> )	Band C	Tetrahydrofuran (C <sub>4</sub> H <sub>8</sub> O)	Band B
Dichloro-ethane (C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub> )	Band D	Turpentine (C <sub>10</sub> H <sub>16</sub> )	Band B
AVTUR JP8	Band B	Xylene (C <sub>8</sub> H <sub>10</sub> )	Band C

### Standard Gas Curves (UL/CSA/INMETRO) for Hydrocarbon Searchpoint Optima Plus Instruments:

Part number in bold, followed by the Gas Name and in parenthesis the LEL (%V/V) and if 3rd Party Approved. In all Gas Curves the Full Scale is 100%LEL. Calibrated using EN50054 LEL Values

- **2108D3001**: Methane (LEL 5%V/V, 3rd Party Approved)
- **2108D3002**: Ethane (LEL 3 %V/V)
- **2108D3004**: Propane (LEL 2 %V/V, 3rd Party Approved)
- **2108D3005**: Butane (LEL 1.5 %V/V, 3rd Party Approved)
- **2108D3006**: Propene (LEL 2 %V/V)
- **2108D3012**: Acetone (LEL 2.15 %V/V)
- **2108D3018**: Butan-1-ol (LEL 1.4 %V/V)
- **2108D3020**: Butyl acetate (LEL 1.2 %V/V)
- **2108D3023**: Butanone (LEL 1.8 %V/V)
- **2108D3024**: Cyclohexane (LEL 1.2 %V/V)
- **2108D3026**: Cyclohexanone (LEL 1.3 %V/V)
- **2108D3028**: Ethanol (LEL 3.3 %V/V)
- **2108D3030**: Ethyl acetate (LEL 2.1 %V/V)
- **2108D3032**: Heptane (LEL 1.1 %V/V)
- **2108D3034**: Hexane (LEL 1.2 %V/V)
- **2108D3040**: Methanol (LEL 5.5 %V/V)
- **2108D3042**: Toluene (LEL 1.2 %V/V)
- **2108D3044**: o-Xylene (LEL 1 %V/V)
- **2108D3048**: Diethyl ether (LEL 1.7%V/V)
- **2108D3054**: p-Xylene (LEL 1 %V/V)
- **2108D3056**: Pentanes (LEL 1.4 %V/V)
- **2108D3059**: Dimethyl ether (LEL 3 %V/V)
- **2108D3064**: N,N-Dimethyl formamide (DMF) (LEL 2.2 %V/V)
- **2108D3073**: Propane (LEL 2 %V/V, 3rd Party Approved)