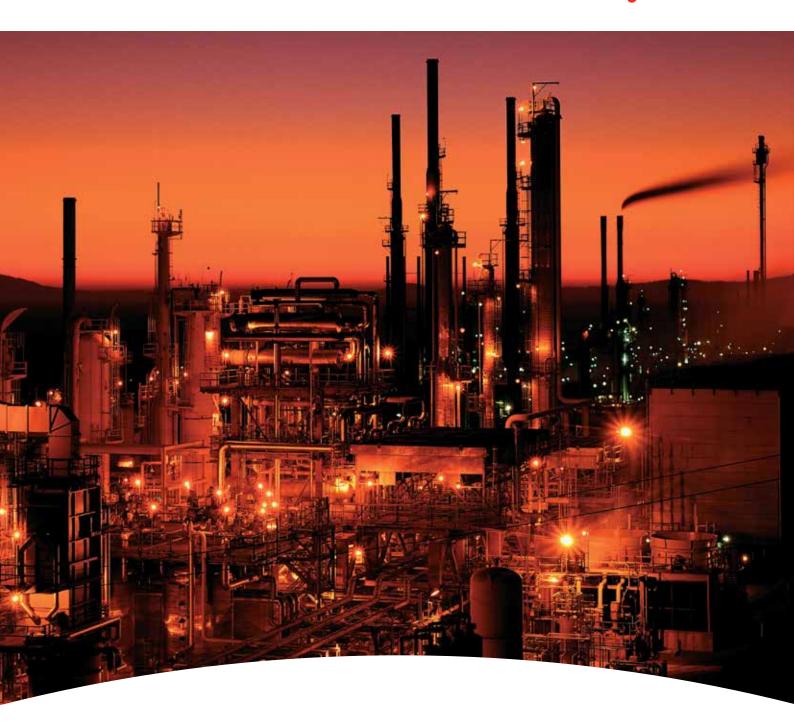
HALO

Honeywell





HALO LED Junction Box with optional HART® Port

HALO





Easy to use

- Clear device status provides enhanced safety
- Easier to locate a unit in fault/warning
 - reduces time for maintenance
- Allows convenient connection of an appropriately certified HART® handheld device
- No hot work permit required to connect handheld device

Local display

- LED light ring indicates status at a glance: -
 - Green Normal
 - Red Alarm
 - Yellow Fault/Inhibit
- Simple configuration of alarm point and LED brightness

Suitable for wide range of applications

- Can be mounted in highly visible location
- Detector can be mounted remotely from HALO
- Backwards compatible with Searchpoint Optima Plus
- ATEX/IECEx hazardous area approval
- Ex e enclosure
- One M25 sensor entry, three M20 cable entries

Easy to Install

- Optional pipe mounting bracket
- Optional sunshade
- Optional retrofit adaptor plate

Status at a glance

The HALO Junction Box enhances the Searchpoint Optima Plus point infrared Hydrocarbon gas detector* by providing a local display showing the sensor status at a glance, even from a distance. It also gives convenient, non-intrusive interaction with a HART® handheld device through an optional intrinsically safe (IS) HART® connection point.

HALO uses three instantly recognisable 'traffic light' colours to indicate its status. The LED light ring shows green to indicate normal operation, yellow to indicate a fault/inhibit and flashes red to indicate an alarm. This allows anyone in the area to clearly and immediately see the status of any detector. This can be particularly useful to identify operational status if the detector is located in a difficult to access area or if a number of detectors are located in the same area.





HALO Overview



HALO is an ATEX/IECEx certified Ex e junction box for use with Searchpoint Optima Plus. It provides a local visual status indication, and an optional intrinsically safe non-intrusive HART® handheld device interface, for sensors that support HART® communication. It is suitable for use in either Zone 1 (gas) or Zone 21 (dust) hazardous areas.

HALO has three M20 cable entries and one M25 sensor entry. Internally, the box has a continuity plate with two earth connection points, and a 12-way terminal block.

The box lid has a three colour light ring (green, yellow and red), and optional connections for a HART® handheld device. The light ring provides a status indication (see below).

Searchpoint Optima Plus Output	Light Ring	Status
Less than 1.5 mA	Flashing Yellow	Fault
1.5 to 2.5 mA	Steady Yellow	Inhibit
2.5 to 3.5 mA	Flashing Green	Warning
3.5 mA to Alarm Threshold*	Steady Green**	Normal
Greater than Alarm Threshold*	Flashing Red	Hazardous Gas Concentration

^{*}Configurable between 10 and 65 %FSD



Flashing Red = Alarm (level is configurable)

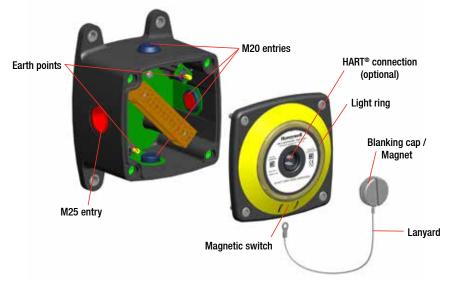
Steady Yellow = Inhibit Flashing Yellow = Fault

Steady Green = Normal operation Flashing Green = Warning



The box is configured using a magnetic switch. A magnet is incorporated into the blanking cap which screws into the middle of the box lid when not in use. The following parameters can be configured: -

- Threshold for local alarm indication (red lights) can be set between 10 % and 65 %FSD
- Brightness of green LED lights can be set to Full Power, Half Power or Off



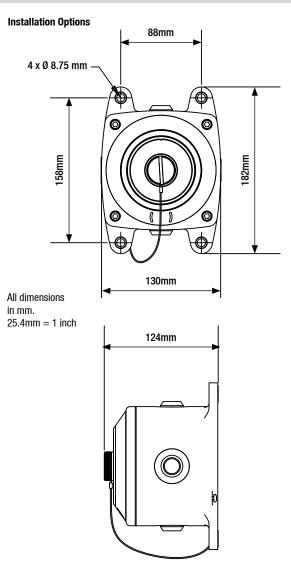
^{**}Configurable to Full Brightness, Half Brightness or Off

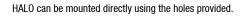
Installation Details

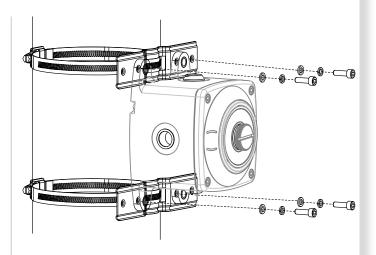




Mechanical





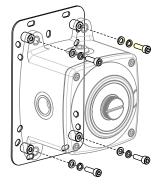


The optional Pipe Mounting Bracket is suitable for a horizontal or vertical pipe, diameter 50 to 150 mm (2 to 6 inches).

Unique new mounting bracket design: -

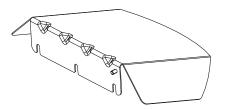
- · Easier to install than traditional brackets
- Mounting straps hold to pole better than U-bolt style





The optional Retrofit Adaptor Plate enables HALO to be conveniently mounted in place of an existing DVC100 or Honeywell Analytics Junction Box.

The plate has mounting holes corresponding to the hole centres of the DVC100 series and the Honeywell Analytics Junction Box.



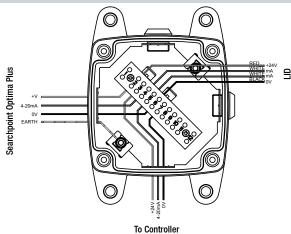
An optional sunshade is available which covers the HALO and extends over either side to also protect a sensor. The sunshade slots over the HALO mounting bolts so no additional fixings are required.

Installation, **Technical Summary and Ordering Information**





Electrical



Terminal Module Connections				
Terminal Number	Description	Field Wiring	Searchpoint Optima Plus Wiring	Lid Wiring
1	spare			
2	+V supply		+24 V	+24 V (red)
3	+V supply	+24 V		
4	mA loop		mA output	mA (white)
5	mA loop	mA output		mA (white)
6	-V supply		0 V	0 V (black)
7	-V supply	0 V		
8	spare			
9	spare			
10	spare			
11	spare			
12	spare			
Earth			Earth	

Toobnical	Cummoru	HAIO	Junction Box	
recillical	Sullilliai v	TALU .	JUNICUUM DUX	

Use HALO is an ATEX/IECEx certified Ex e junction box for use with Searchpoint Optima Plus sensors. It provides a local status display, and an optional non-intrusive HART® interface for sensors that support HART® communication. It is suitable for use in either Zone 1 (gas) or Zone 21 (dust) hazardous areas.

reatures	
Display	LED light ring - Red, Green, Yellow LED indicat

Alarm Range 10 to 65%FSD in 5% increments

Environmental

-40 °C to 65 °C **Operating Temperature Operating Pressure** 80 to 120 kPa

Operating Humidity 0 to 99 %RH (non-condensing)

Electrical

Supply Voltage 18 to 32 Vdc **Power Consumption** 1 W maximum Insertion Loss ~25 Ω

Mechanical

Material Glass filled polyester, static dissipative 1.7 kg

Weight **Ingress Protection** IP66/67

Certification

ATEX / IECEx Baseefa 12ATEX0017
☐ II 2 GD IECEx BAS 12.0011 Ex e ia mb IIC T5 Gb -40°C to +65°C Ex ia tb IIIC T100 °C Db **EMC** EN 50270:2006

RoHS HALO is RoHS compliant EN 60079-29-1 Approved Accessory

Orucining initial	madon		
Instruments		Spares	
2308B0903	HALO junction box ATEX/IECEx	2308B0970	Lid assembly – HALO ATEX/IECEx
2308B0941	HALO junction box Inmetro*	2308B0971	Lid assembly – HALO Inmetro*
2308B0947	HALO junction box GOST*	2308B0972	Lid assembly – HALO GOST*
2308B0953	HALO junction box CCCF*	2308B0973	Lid assembly – HALO CCCF*
2308B0900	HALO junction box with HART® connection ATEX/IECEx	2308B0974	Lid assembly – HALO with HART® connection ATEX/IECEx
2308B0940	HALO junction box with HART® connection Inmetro*	2308B0975	Lid assembly – HALO with HART® connection Inmetro*
2308B0946	HALO junction box with HART® connection GOST*	2308B0976	Lid assembly – HALO with HART® connection GOST*
2308B0952	HALO junction box with HART® connection CCCF*	2308B0977	Lid assembly – HALO with HART® connection CCCF*
Accessories		2308B0978	Blanking cap / magnet assembly including lanyard
2308B0934	HALO Sunshade	2308B0924	Terminal block spares assembly
2308B0930	Adaptor Plate Kit	2308B0969	Service spares kit
2308B0923	Pipe Mounting Bracket Kit	* Contact Honeywell Analytics for availability	



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

UK Office Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.