



# BOREAL

## RESPONSE CELL

- Used as a quality assurance and PM tool
- Challenge system with the actual target gas
- Completely sealed and contained

SET

FORGET

DETECT

# BOREAL

## IN-LINE RESPONSE CELL



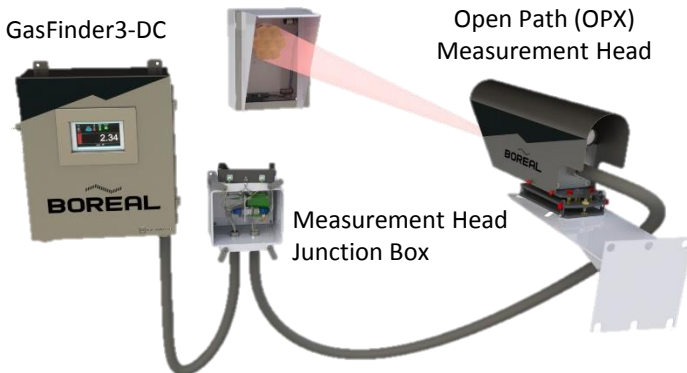
FC/APC Fibre Connections

## WHAT IT DOES

- The response cell is typically used in **leak detection** or **ambient monitoring** installations that:
  - are monitoring for a gas that is **not present in the ambient atmosphere**
  - Difficult, challenging, or not safe to access** the active measurement path
- Response cells are used for **quality assurance** purposes to validate that the GasFinder instruments is **responding appropriately to a nominal concentration of the target gas**
- The validation using a response cell is **NOT a field calibration**

## PROCEDURE + PLACEMENT

- To “bump” or “challenge” the system, **the response cell needs to be placed in the active measurement path**
- This In-Line Response Cell is placed within the active measurement path by installing it in-line through the fibre optic cabling between either the GasFinder, Measurement Head Junction Box, or the Measurement Head

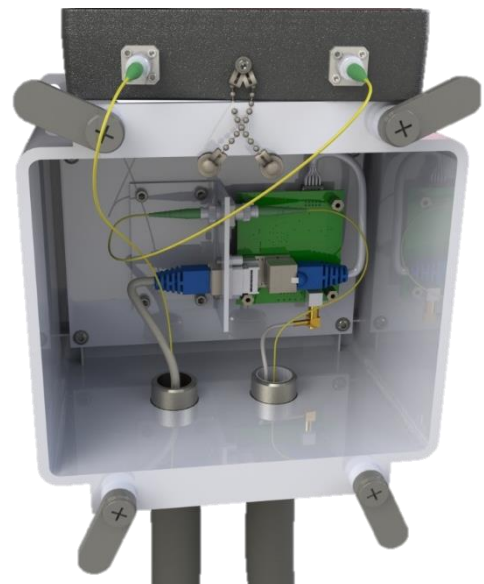


## HOW IT WORKS

- The In-Line Response Cell is a **completely sealed unit that contains the specific target gas** that the GasFinder Instrument has been configured to detect
- The OP-TDL GasFinder instruments are designed to **“count” the number of molecules** of the target gas in the active measurement path
- Since the response cell has a concentrated number of molecules within the cell it **can replicate or simulate a release of gas that would be similar to a loss of containment**
- The small amount of gas contained in response cell **does not present a health hazard to the user**

## WARNING

- If the GasFinder instrument is connected to Safety Instrumented System (SIS) it is important to **follow your facilities testing/bypass procedure** so that you do not inadvertently execute an unwanted shutdown procedure
- Care should be taken in handling as **to not damage/break** the Response Cell.
- While some of the target gases are combustible or toxic, it is important to remember that the **volumes used are quite small** and if the glass is broken, **the gas concentration should disperse quickly**



## SPECIFICATIONS

- Response Cell:**
  - Dimension: 150 x 63 x 38 mm (5.875 x 2.5 x 1.5 in)
  - Weight: 0.4 kg (1 lbs.)
- Carrying Case (w/ Response Cell):**
  - Dimensions: 355 x 266 x 152 (14 x 10 x 6 in)
  - Weight: 2.4 kg (5.5 lbs.)

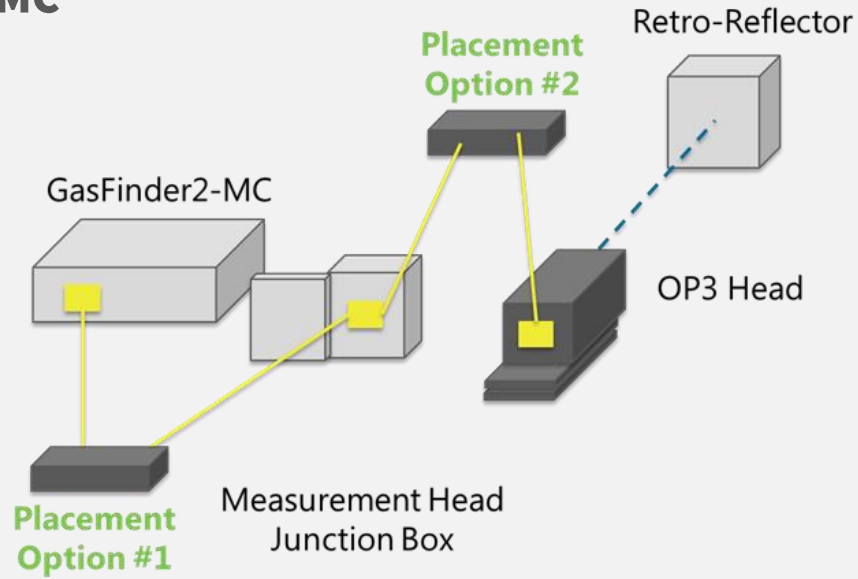
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## IN-LINE RESPONSE CELL

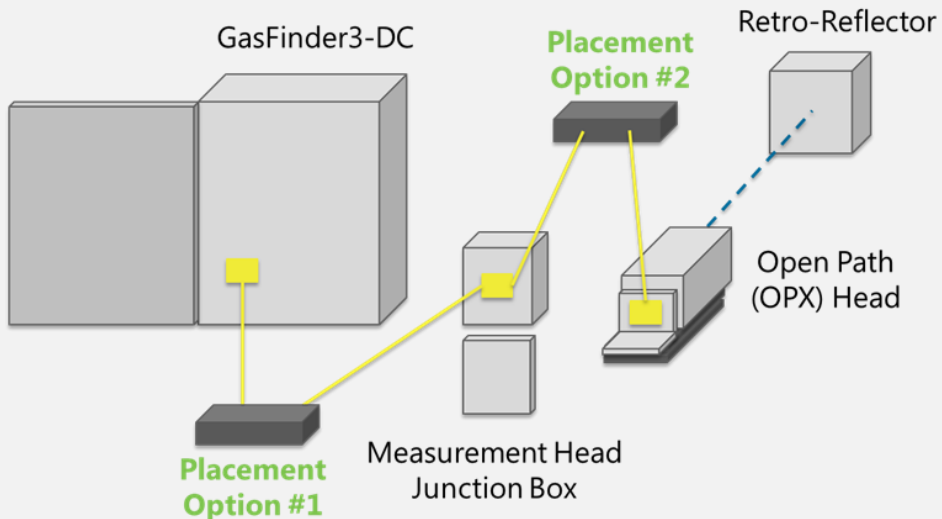


FC/APC Fibre Connections

### GasFinder2-MC



### GasFinder3-DC



# CONTACT US

**CHOOSING THE BEST SOLUTION FOR YOUR APPLICATION IS CRITICAL. LET US HELP.**

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## **LOCAL DISTRIBUTION:**



## **THE NEXT STEP:**

Contact us for an **Application Engineering Review:**

- **Select the target gas you want to measure**
- Determine if you require **leak detection** or **ambient monitoring** analysis capabilities
- Decide which **measurement head** is best suited to your application
- Once we have identified the best technical solution from your needs, **we'll provide you with a quotation.**
- If you require **on-site/factory training, installation, and commissioning support** from Boreal Laser or a Boreal Laser Authorized Distributor this service is available at our standard charge-out rates

**BOREAL**