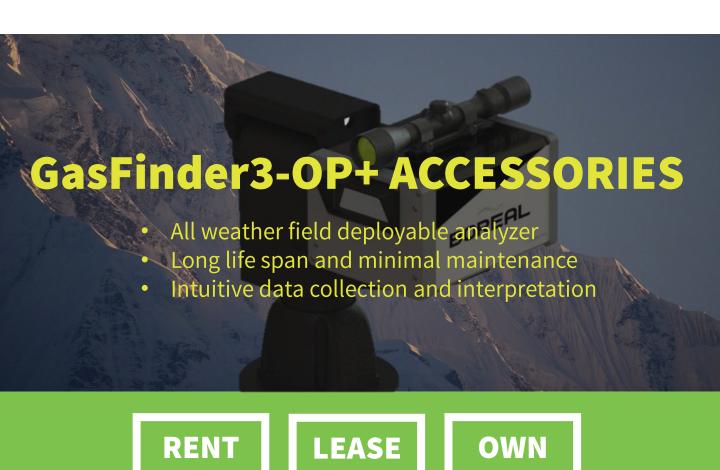
BOREAL





GasFinder3-OP (OPEN-PATH)



WHAT IT DOES

- The GasFinder3-OP is a field deployable Open-Path Tunable Diode Laser (OP-TDL) based gas analyzer system that is primarily used for:
 - Leak Detection: provides immediate and unambiguous detection of fugitive gas releases in safety applications.
 - Ambient Monitoring: Continuously monitors gas concentrations over open area and/or point sources for environmental monitoring applications.
- The GasFinder3-OP is used in applications where a specific target gas has been identified for leak detection or ambient monitoring applications.
- Can be combined with weather data and an atmospheric dispersion model to give a measured emission rate.

CORE SYSTEM COMPONENTS

- GasFinder3-OP (GF3-OP): is the analyzer or also known as a CCU/Controller.
- Retro-Reflector: this returns the transmitted laser light back to the GF3-OP for analysis.
- Power Supply: the GF3-OP is supplied with both 12 VDC Alligator Clamp Battery Cables and a 120-220 VAC Power Supply.
- X-Y Aiming Mount: this fine adjustment mount enables easy alignment on long path lengths.
- Rain/Dust Hood: this hood helps prevent condensation and particulates from settling on the window and lowering the light level.
- Retro Heater: the heater is controlled by a thermostat which helps keep condensation from building on the enclosures window.



GasFinder3-OP



RETRO-REFLECTOR



POWER SUPPLY



X-Y AIMING MOUNT



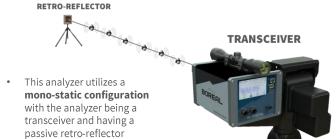
RAIN/DUST HOOD



RETRO HEATER

HOW IT WORKS

 Boreal's OP-TDL technology counts every target gas molecule in the measurement path to give a path integrated ppm-m concentration or path average ppm concentration.



- Measure only the target gas and all of the target gas. Boreal
 analyzers do not suffer from cross interference and are not affected by
 humidity.
- The GasFinder3-OP has been designed to be a easy-to-use field deployable tool with no post processing software required.
- Boreal Laser has a patented internal reference cell that does not require routine intervention or zero/span gas to eliminate drift as this is done automatically and once a minute.

OP-TDL BENEFITS

returning the laser light.

- Large spatial resolution (path lengths up-to 750m).
- Can provide an independent sample or reading every second.
- Cannot be poisoned or mechanically over ranged.
- No interference with other gases.
- No memory effects as each sample is independent from the last.
- Data collection and interpretation is simple and intuitive.
- Built for ambient winter and summer conditions.
- Minimal maintenance and intervention.
- With no moving parts, the system has a long life span.

GASFINDER3 TECHNOLOGY

- All new digital/ electronics based platform.
- Sophisticated self-diagnostics and data validation with internal reference cell.
- Analyzer can easily be updated through USB port.
- Practically no temperature related reading drift over an ambient range of -40C to +50C.
- Reliable and stable operation in light levels down to 5% of ideal conditions.
- Significantly increased data logging capabilities that can store all of its generated data over a 20 year period.
- Available Pressure and Temperature compensation.
- User friendly touchscreen interface with graphic displays.



GasFinder3-OP (OPEN-PATH)





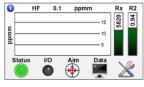
USER INTERFACES

- · GasView Software:
 - Windows based software that communicates over RS-232 serial communication
 - Real-Time Graphical Display: ppm/time, light level, and active status
 - User configuration: ppm-m or ppm mode, set path length, and set analyzer/path pressure & temperature
 - Diagnostic Data: View real-time GasFinder Data (serial string), initiate log file (daily accumulation of all collected data), initiate array transfer (snapshot of waveforms & diagnostic data), and view debug statements
- Human Machine Interface (HMI) Numerical Display:
 - Touchscreen is suitable for both summer and winter applications
 - Real-Time Numerical Display: ppm, light level, and active status (alarm & fault)
 - User configuration: user configurable alarm levels
 - Diagnostic Data: View real-time GasFinder Data (serial string) and view debug statements
- Human Machine Interface (HMI) Graphical Display:
 - Real-Time Graphical Display: ppm/time, light level, R2 confidence factor, and active status
 - User configuration: set alarm levels
 - Diagnostic Data: Visualize snapshot of waveforms

Numerical Display

CH2 HI HIHI Fault CH2 1 2345

Graphical Display



QUANTITATIVE ADVANTAGE

- Boreal Laser can actively compensate for both the Universal Gas Law (Physical) and Absorption Line Strength Changes (Spectroscopic).
- The greatly improved and patented internal laser temperature stability (controlled to +/-0.0001°C) means that there is practically no temperature related drift over the analyzers temperature change from a range from -40 to 50°C.
- This means that the GasFinder3-DC provides the most accurate and representative Raw Uncorrected Results in the industry.
- Boreal Laser has added the Pressure + Temperature (P+T) Inputs
 that is used to provide real-time pressure and temperature
 values from the active measurement path for dynamic P+T
 compensation.

NO INHERENT CALIBRATION

- There is no Boreal Laser requirement for any periodic recalibration and if the GasFinder unit continues to operate without fault codes, the system is still within calibration and will continue to provide accurate and reliable data.
- It is "recommended" that the equipment be returned to the factory every five (5) years. In addition to check-up and calibrations, there may be hardware, software, firmware, or analysis algorithms updates available to improve the performance of the analyzer that can only be performed at the factory or with a re-calibration.
- Boreal Laser uses a tele-communication laser in our analyzers and they're spec'd to last at least 26.6 years.
- The long-life span combined with no inherent calibrations make the GasFinder3-DC a cost-effective option against almost any gas detection technology, especially if the asset is amortized over 5,10, or 15 years.

ON-BOARD DIAGNOSTICS

- Boreal Laser's GasFinder technology makes use of on-board diagnostics to ensure the system is functioning properly, responds to real target gas and does not drift.
- Boreal's on board diagnostics will:
 - Determine if it gets a proper response from a real sample (with the internal reference cell).
 - Make any adjustments necessary to eliminate drift (Line-Centre).
 - Collect additional diagnostic information to ensure the analyzer is operating within required parameters.
 - If any of these conditions is not met then the analyzer will enter a fault condition.

SPECIFICATIONS

- Technology Name: OP-TDL or "Laser"
- Detection Principle: TDLAS with WMS
- Dynamic Range: 5 orders of magnitude
- Response Time: 1 second per second
- Accuracy: +/-2% of reading
- Data Output: 3x 4-20mA & Dry Contact Relays per channel
- User Interface Mediums: HMI Touchscreen or GasView Software
- Interface Protocols: Serial (RS-232 & Micro-USB), Ethernet (TCP/IP: FTP or Telnet) and MODBUS (RS-485)
- **GF3-DC Weight:** 5.0 kg (11.0 lbs)
- **GF3-DC Dimensions:** 260 x 200 x 160mm (10.2 x 7.9 x 6.3in)
- Power Requirement: 12 VDC @ 20 Watts (120-220 VAC Optional)
- Ambient GF3-DC Temperature: -40°C to +50°C (-40°F to 122°F)
- Ingress Protection: IP 65
- Light Source: Semiconductor Diode Laser w/~10mW output
- Eye Safety: Class I AEL under IEC 60825-1

BOREAL **BUILD YOUR OWN ASSEMBLY**



ANALYZER MODELS

Basic GasFinder3-OP Model:

- Used for temporary measurement campaigns where the end-user will interact with the system primarily through the HMI and GasView interfaces.
- Includes both MODBUS (RS-485) and Serial (RS-232) outputs

Standard GasFinder3-OP Model:

- Used for both temporary and permanent installations where the end-user will want to connect the GasFinder3-OP data to a PLC or
- In addition to the Modbus (RS-485) and Serial (RS-232) outputs, the system also has Ethernet and 1x 4-20mA Analog Loop.

Enhanced GasFinder3-OP Model:

- Used for fixed monitoring applications where multiple analog loops and dry contact relays are required.
- This model also enables for external analog loops to be used for pressure and temperature inputs to enable real-time compensation.
- Includes an external Termination Junction Box that houses a 120-220 VAC Power Supply, I/O Module (3x Analog Outputs, 3x Discrete Outputs, & 2x Analog Inputs), Isolators (optional), and Radio Modem (optional).

ANALOG LOOP ISOLATION

Standard: Non-Isolated Active 4-20mA Analog Outputs.

Optional with the Enhanced Model:

Isolation for Analog Loops (Field configurable for Active or Passive)

- Isolation for **one (1)** analog loop
- Isolation for two (2) analog loops
- Isolation for three (3) analog loops

Note: Isolators used to eliminate ground loops, reduce noise, block transient signals, and enable field powered loops.

DETECTABLE GASES

- The GasFinder3-OP only "sees" the one gas it is meant to detect, which makes it perfect for leak detection (no false alarms) and ambient monitoring (no cross interferences).
- Select one gas from the list of gases detectable by OP-TDL:
 - Methane (CH₄)
 - Carbon Monoxide (CO)
 - Carbon Dioxide (CO₂)

 - Hydrogen Sulfide (H₂S) Hydrogen Chloride (HCl)
- Hydrogen Cyanide (HCN)

Hydrogen Fluoride (HF)

Ammonia (NH₃)

Acetylene (C_2H_2)

Ethylene (C2H4)

- The exact gas specifications are to be confirmed at the time of an application engineering review.
- Some gases may have different ranges that are better suited to particular path lengths and applications.

PATH LENGTH (OPEN PATH)

The Retro-Reflector Array's have been optimized for use at particular path lengths for both returned laser light and alignment stability. The end-user is to select which Path Length Range best represents their application:

Path Length Range	Retro-Reflector Array
1-20 m	Grey Tape
20-45 m	1 Corner Cube
45-75m	3 Corner Cube Array
75-200m	7 Corner Cube Array
200-350m	12 Corner Cube Array
350-500m	19 Corner Cube Array
+500m	Multiple Arrays

Retro Enclosure Material: Fibre Glass is standard with Stainless Steel being optional.

Note: All Retro-Reflectors come standard with heaters and rain/dust hoods to minimize condensation and dust from building on the window.

OPTIONAL ACCESSORIES



ANALYZER TRIPOD



RETRO TRIPOD



SCANNER TRIPOD



SCANNER



CONTROL CENTRE RESPONSE CELL



WHAT IS IMPORTANT TO YOU?

S = Standard			
O = Optional X = Included in Model - = Not Available within Model	Basic Model (Good)	Standard Model (Better)	Enhanced Model (Best)
Display/Interface Options			
HMI Touchscreen & GasView Software	S	S	S
View Real-Time Serial String Data	S	S	S
HMI Numerical Display	S	S	X
HMI Graphing Display	-	X	X
View Waveforms on HMI	-	- -	X
Communication Options			
Update Firmware through USB port	S	S	S
Modbus (RS-485)	S	S	S
Serial (RS-232)	S	S	S
Ethernet (Static IP or DCHP)	-	X	X
1x 4-20mA Loop Output per Channel	-	S	X
3x 4-20mA Loop Outputs per Channel	-	-	Χ
3x Dry Contact Relays per Channel	-	-	Χ
2x 4-20mA Inputs (Real-Time P+T Compensation)	-	-	X
Analog Loop Isolation			
Non-Isolated Loops (Active)	S	S	S
One (1) Isolated Analog Loops (Active & Passive)	-	-	0
Two (2) Isolated Analog Loops (Active & Passive)	-	-	0
Three (3) Isolated Analog Loops (Active & Passive)	-	~	0
Retro-Reflector Enclosure Options			
Heated Fibre Glass Retro-Enclosure	S	S	S
Non- Heated Fibre Glass Retro-Enclosure	0	0	0
Heated Stainless Steel Retro-Enclosure	0	0	0
Non-Heated Stainless Steel Retro-Enclosure	0	0	0

BOREAL

BOREAL TILT-PAN SCANNER





GasFinder3-DC w/ OPX Head

GasFinder3-OP

WHAT IT DOES

- The Tilt-Pan Scanner serves two main functions:
 - Allows a single GasFinder or Measurement Head to monitor multiple active measurement paths by scanning up to 8 different successive retro-reflectors
 - The Auto Light Optimization function maintains optimum optical alignment between the GasFinder and retro-reflector array

HOW IT WORKS

- The Tilt-Pan Scanner is controlled by Boreal's GasViewMP Software. The GasViewMP Software can be ran on a Windows based computer or with the Remote Monitoring + Control Centre which has an internal data logger
- The Total Cycle Time can be controlled by programming the amount of dwell time on each retro-reflector with the GasViewMP Software
- The scanner can either be mounted on a heavy-duty tripod for temporary/portable applications or affixed to a structure for permanent installations



CONSIDERATIONS

- The practical path length limit is 500m due to step sizing resolution of the Tilt-Pan Scanner:
 - Oversized retro-reflector array(s) are used to make sure that there is a sufficiently sized target for the scanner to hit
- If your current installation has alignment problems caused by a moving structure, then the Tilt-Pan Scanner may be a more cost and time effective alternative to mechanical and civil work.

SPECIFICATIONS

TILT-PAN PERFORMANCE

- Max Payload: 6.8 kg (15 lbs.)
- Pan Speed Range: 0.006°/sec 100°/sec
- Tilt Speed Range: 0.003°/sec 50°/sec
- Resolution-Pan: 0.006°
- Resolution-Tilt: 0.003°

TILT-PAN FEATURES

- Tilt Range: +30° to -90° from level
- Pan Range: +/- 188°
- Duty Cycle (Continuous Operation): Up to 100%
- Max Path Length: 500m

POWER REQUIREMENTS

- Input Voltage: 24-30 VDC
- Power Consumption: 19.8 to 34.5 W

COMMUNICATION

- Base Connector: 32-pin
- Power: 24-30 VDC + Shield
- Control: RS-232, RS-485/422, Ethernet
- Payload Pass Through: Power, Video 1/2, High-Speed, Other
- Protocol: DP (ASCII, Binary), Pelco-D, Nexus

MECHANICAL

- **Weight:** 5.44 kg (12 lbs.)
- **Dimensions (HxWxL):** 265.7 x 173.7 x 138.43mm (10.5 x 6.8 x 5.5")
- Payload Mounting: side and/or top

ENVIRONMENTAL

- Operating Temperature: -30°C to 70°C
- Humidity: 100% RH
- Ice: Sustained operation with 0.25" build-up
- Sand/Dust: Sustained operation
- Wind/Fog/Rain: IP67
- Area Classification: General Purpose

CONTROL CENTRE REQUIRED



or

REMOTE MONITORING + CONTROL CENTRE





WHAT IT DOES

- The Power + Control Centre is one of the two Control Centre options available for communicating with the Tilt-Pan Scanner
- The Power + Control Centre has two main purposes:
 - Supply power to both the Tilt-Pan Scanner and the GasFinder unit
 - Enables the supplied GasViewMP Software to communicate locally with both the Tilt-Pan Scanner and the GasFinder unit

BENEFITS

- The Power + Control Centre is a all-in-one weather tight enclosure that can be used in the field
- This includes everything required to connect and power the Tilt-Pan Scanner to a user supplied data logger along with the GasViewMP Software
- Allowances for both DB9 Cables allow for simultaneous communication within the 32-Pin Cable for both the GasFinder unit and the Tilt-Pan Scanner
- The Power + Control Centre can be used along with an inverter for DC Power Applications

REQUIREMENTS

 While the Power + Control Centre includes the GasViewMP Software it does not include a Data Logger (Windows based PC) to run the Tilt-Pan Scanner

COMPLETE MODULE SPECS

- Weight: 4.5kg (10 lbs.)
- **Dimensions:** (LxWxH): 280 x 230 x 165 mm (11 x 9 x 6.5 in)
- Power Requirement: 100-240 VAC (12 VDC also available)
- Ambient Temperature: -30°C to +50°C (-22°F to 122°F)
- Ingress Protection: IP 65
- Hazardous Area Classification: General Purpose

POWER SUPPLY SPECS

INPUT:

- Input Voltage: 100 to 240 VAC
- Frequency: 47 to 65 Hz
- Input Current: 5 A max. (RMS) @ 115 VAC

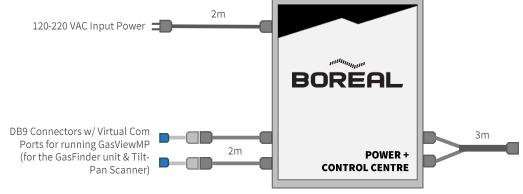
OUTPUT 12 VDC:

- Total Power: 10 to 16.5 V @ 5 A
- Overload Protection: Short circuit protection on all outputs
- Remote Sense: Reverse connection protected

OUTPUT 24 VDC:

- Total Power: 22.5 to 29.5 V @ 4.2 A
- Overload Protection: Short circuit protection on all outputs
- Remote Sense: Reverse connection protected

FUNCTIONAL LAYOUT 2m



32-Pin Cable that provides Power and Two-Way Communication to the Tilt-Pan Scanner and the GasFinder unit via GasViewMP

Weather Tight Fibreglass Junction Box



REMOTE MONITORING + CONTROL CENTRE



WHAT IT DOES

- The Remote Monitoring + Control Centre is used to provide power distribution, log data, and allow remote communication (via cell modem) to provide on-board intelligence for a number of components that can include:
 - GasViewMP interface software
 - One (1) or two (2) GasFinder and Tilt-Pan Scanner assemblies
 - Weather data (3D sonic anemometer + met station)
 - **Relays** (can be used to remotely cycle the power)
 - Webcam (useful tool for verifying weather conditions)
 - Along with other Serial based inputs
- Measurement campaigns can now be monitored remotely without having to physically visit the installation
- Depending on the accessories the operator can remotely intervene with the installation if necessary

COMPLETE MODULE SPECS

- Weight: 13.6kg (30 lbs)
- **Dimensions:** (LxWxH): 470x 420 x 285mm (18.5 x 16.5 x 11.25in)
- Power Requirement: 120-240 VAC (12 VDC also available)
- Ambient Temperature: -30°C to +50°C (-22°F to 122°F)
- Ingress Protection: IP 65
- Hazardous Area Classification: General Purpose

POWER SUPPLY SPECS

INPUT:

- Input Voltage: 100 to 240 VAC
- Frequency: 47 to 65 Hz
- Input Current: 5 A max. (RMS) @ 115 VAC

OUTPUT:

- Total Power: 10 to 16.5 V @ 5 A & 22.5 to 29.5 V @ 4.2 A
- Overload Protection: Short circuit protection on all outputs
- Remote Sense: Reverse connection protected

DATA LOGGER SPECS

- CPU: Intel Atom D525 Processor w/ ICH8M Chipset
- System Memory: DDR3 667/800 SODIMM Slot x 1, up to 4 GB
- OS Support: Windows XP & 7
- · I/O:
- RS-232/422/485 x 1
- RS-232 x 5 (B2 / B2M); x 1 (A1 / A1M)
- USB 2.0 x 6 (B2 / B2M); x 2 (A1 / A1M)
- VGA x 1
- Line-out x 1
- DIO x 8 (DI x 4; DO x 4)
- LAN x 2
- Compact Flash slot x 2

WIRELESS MODULE SPECS

3G HSPA + MODELS

- Peak HSPA data rates
 - Download: 14.4 Mbps
 - · Upload: 5.76 Mbps
- SIM Interface (2FF)

3G EV-DO MODELS

- Peak CDMA data rates
 - Download: 3.1 Mbps
 - Upload: 1.8 Mbps
- SIM Interface (2FF)

PROTOCOLS

- Network: TCP/IP, UDP/IP, DNS
- Routing: NAT, Host Port Routing, DHCP, PPPoE, VLAN, VRRP, Reliable Static Route
- Application: SMS, Telnet/SSH, Reverse Telnet, SMTP, SNMP, SNTP
- Serial: TCP/UDP PAD Mode, Modbus (ASCII, RTU, Variable), PPP
- GPS: NMEA 0183 V3.0, TAIP, RAP

EVENTS REPORTING

- Event Types: Digital Input, GPS/AVL, Network Parameters,
- Data Usage, Timer, Power, Device Temperature
- Report Types: SMS, Email, SNMP Trap, Relay Output, GPS
- Rap Report, Events Protocol Message to Server

AVAILABLE OPTIONS



GasFinder3-OP



TILT-PAN SCANNER



3D ANEMOMETER



MET. STATION



WEBCAM



RELAY

BOREAL CONTROL CENTRE CONFIGURATIONS



CONTROL CENTRE COMPARISION

X = Included	-= Not Available	O = Optional	Power + Control Centre	Remote Monitoring + Control Centre
Use with one (1) Tilt-Pan Scanner/ GasFinder Unit			X	X
Use with two (2) Tilt-Pan Scanners/ GasFinder Units			-	X
120-220 VAC Power Source			X	X
12 VDC Power Source (Inverter)			0	0
GasViewMP (Windows based Software)			X	X
Internal Data Logger to run GasViewMP			-	Χ
Collect and Store Data from Multiple Serial Devices (1-6)			-	X
Cellular Modem for 2-Way Communication			-	Х
Radio Modem for 2-Way Communication			-	Х

ORDERING INFO

Below are the required items for the Tilt-Pan Scanner:

- BL-TPS: Tilt-Pan Scanner
- **BL-PCC:** Power + Control Centre Or
- **BL-RMCC:** Remote Monitoring +Control Centre

Below are Optional Accessories

- **BL-TPT:** Tilt-Pan Scanner Tripod
- **BL-SRT:** Small Retro Tripod (7 Cube Arrays and Under)
- **BL-LRT:** Large Retro Tripod (12 Cube Arrays and Over)
- BL-DC2AC: DC to AC Power Inverter

Fibre Glass Retro Enclosures:

- BL-HFR-3: 3 Corner Cube Array
- BL-HFR-7: 7 Corner Cube Array
- BL-HFR-12: 12 Corner Cube Array
- BL-HFR-19: 19 Corner Cube Array
- BL-HFR-27: 27 Corner Cube Array

Stainless Steel Retro Enclosures:

- **BL-HSR-3:** 3 Corner Cube Array
- BL-HSR-7: 7 Corner Cube Array
- BL-HSR-12: 12 Corner Cube Array
- BL-HSR-19: 19 Corner Cube Array
- BL-HSR-27: 27 Corner Cube Array

SCANNER PATH LENGTH TABLE

Path Length Range	Retro-Array
1-20 m	Grey Tape
20-45 m	3 Corner Cube Array
45-75m	7 Corner Cube Array
75-200m	12 Corner Cube Array
200-350m	19 Corner Cube Array
350-500m	27 Corner Cube Array
+500m	Not Recommended





Note: Retro-Arrays are oversized for scanner use.

Note: All retroreflectors come standard with heaters and rain/dust hoods.





WHAT IT DOES

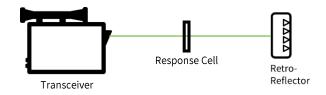
- The response cell is typically used in leak detection installations that are monitoring for a gas that is not present in the ambient atmosphere.
- Response cells are used for quality assurance purposes to validate that the GasFinder instruments is responding appropriately to a nominal concentration of the target gas
- The validation using a response cell is **NOT a field calibration**

HOW IT WORKS

- The 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

PROCEDURE + PLACEMENT

- To "bump" or "challenge" the system, the response cell needs to be placed in the active measurement path
- The active measurement path is between the transceiver and the retro-reflector



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

REPEATABILITY

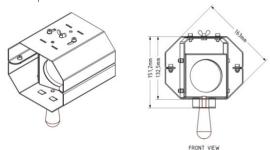
- One cannot expect identical readings from the response cell every time it is put into the path as it has an anticipated repeatability around +/- 20%
- Repeatability of the response cell is effected by two factors:
 - Depending on how the response cell is held in the active measurement path, the path length through the response cell (and number of counted molecules) can change and therefore so will the indicated reading
 - · Optical effects from the response cell windows

RE-CERTIFICATION

 It is recommended that response cells be returned to Boreal Laser for factory re-certification every two years or within the frequency required by facility quality assurance and safety procedures.

RESPONSE CELL HOLDER

• A response cell holder is available and is shown below:



RESPONSE CELL TYPES







1" HF CELL

3" HF CELL

ALL OTHER GASES



ESTIMATE EMISSION RATES WITH OP-TDL's

CORE COMPONENTS



+



+







GAS CONCENTRATION MEASUREMENT

WEATHER DATA

ATMOSPHERIC DISPERSION MODEL

EMISSION RATE



GasFinder3-OP



3D ANEMOMETER



bLS



VERY
ACCURATE
EMISSION
RATE



GasFinder3-DC



OTHER MET. DATA



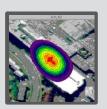
RADIAL PLUME MAPPING



MODEL: PLUME + FLUX



GasFinder2-MC



AERMOD



REAL-TIME EMISSION RATE

GENERATING AN ESTIMATED EMISSION RATE

Gas Concentration Measurement:

- Boreal Laser develops and manufactures the GasFinder analyzers.
- There are a number of analyzers and measurement heads configurations available

Weather Data:

- Boreal Laser can supply various weather data instruments
- Boreal Laser's Remote Monitoring + Control Centre can be used to collect and transmit both the gas concentration and weather data **Atmospheric Dispersion Model:**
- Boreal Lases does not sell or support any of the atmospheric dispersion models
- The models listed are the most common techniques used with our equipment by our customers.

CONTACT US

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

Boreal Laser Inc.

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Phone: +1.780.488.5173

Technical Product Information: info@boreal-laser.com

Request Quote: sales@boreal-laser.com

LOCAL DISTRIBUTION:

THE NEXT STEP:

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

- Select the target gas you want to measure
- Determine if your 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

