BOREAL

EXTRACTIVE MEASUREMENT (BYPASS)CELL

- Process unaltered during measurement
- Optics can be removed while probe is connected
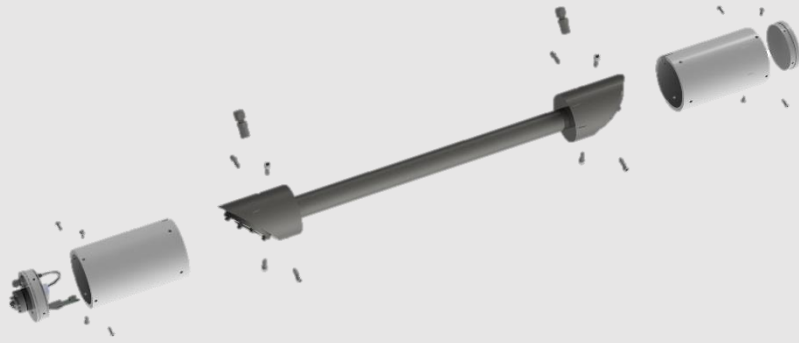- No power at the head required

SET   **FORGET**   **DETECT**

boreal-laser.com   REMOTE PRECISION. SURE DECISION.

BOREAL

EXTRACTIVE MEASUREMENT CELL

WHAT IT DOES

- The Extractive Measurement Cell is a measurement head for our series of GasFinder analyzers that **provides a path average concentration** within the process (active measurement path)
- The Extractive Measurement Cell is built as such so the **process does not come into contact with the optical components** of the measurement head.
- The process can **flow unobstructed** through the cell without significantly altering pressure or flow characteristics
- The length of the **active measurement path can be altered** by changing the length of the 1" NPT pipe.

HOW IT WORKS

- The analyzer can be **mounted locally or remotely**
- **Fibre optic cable** carries the laser light from the analyzer to the remotely mounted transceiver in the Extractive Measurement Cell
- The **active measurement path** is formed by the laser passing through the window fixtures (and the process) and is returned by the retroreflector mounted in the opposing cover
- The laser light is then collected on the photodiode and the signal is carried back to the analyzer via **coaxial cable**
- The ppm-m concentration is then transferred **from the analyzer to the PLC or DCS**
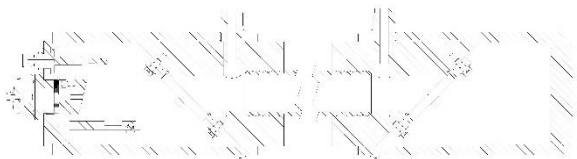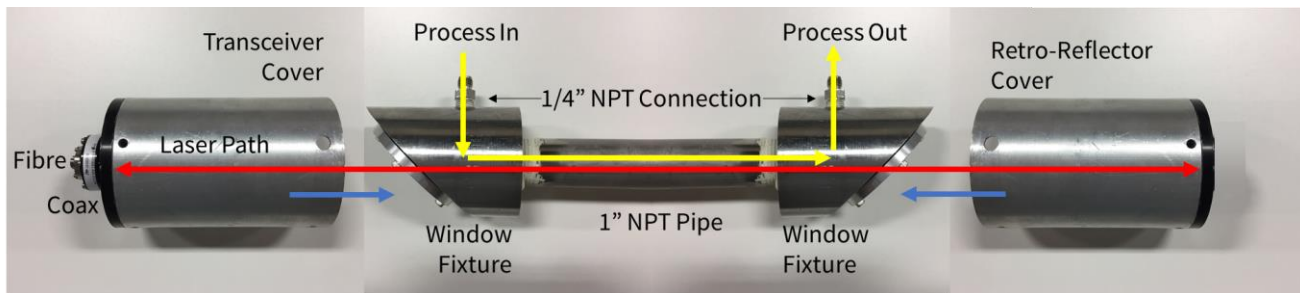
SPECIFICATIONS

SIGNAL CONNECTOR SPECIFICATIONS
- **Optical Connector:** FC/APC Female (Signal-In)
- **Coaxial Connector:** BNC Female (Signal-Out)
- **Aiming Laser Connector:** FC/APC Female (Signal-In)
- **Power Supply:** None Needed

WINDOW FIXTURE PHYSICAL SPECIFICATIONS
- **Process Connection Size:** 1" NPT
- **Bypass Connection Size:** ¼" NPT
- **Material:** 316 SS
- **Rated:** 100 KPa @ 150°C (15 PSIG @ 300°F)
- **Lens Material:** Sapphire
- **Seals:** Buna O-Ring
- **Probe Dimensions:** 76.2 x 76.2 x 108 mm (3.0 x 3.0 x 4.25 in)
- **Weight: 2** kg (4.5 lbs.)

COVER PHYSICAL SPECIFICATIONS
- **Probe Dimensions:** 79 x 79 x 152 mm (3.25 x 3.25 x 6 in)
- **Weight:** 0.4kg (1 lbs.)

APPLICABLE ANALYZERS

GasFinder2-MC

GasFinder2-FC

GasFinder2-FCr

EXPANDED VIEW