



**Multiplelabs**  
Turnkey Laboratories Solutions

# Process GC-FTIR

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Process is a next generation Process GC-FTIR detection system that can be coupled to any commercial GC or deployed as a low cost FTIR gas analyzer for direct real-time process monitoring. Process is an ideal process analyzer in either the Process GC-FTIR or direct FTIR configuration due to its dynamic range, sensitivity, specificity, constant calibrations, room temperature detection, and innovative software.

To improve the GC detection sensitivity, Process utilizes an integrating flow through gas cell concept with a high optical throughput. This high optical throughput allows the Process to utilize a DTGS detector and be utilized for process monitoring applications in either the FTIR or Process GC-FTIR mode. This gas cell design also reduces the maintenance and cost of ownership compared to other FTIR or GC systems.

## ►► Specifications and Enhancements

- Rugged Process FTIR
  - » 10+ year MTBF
  - » Multiple spectral resolutions (1 – 64  $\text{cm}^{-1}$ )
  - » Fast response up to 1 sec
- DTGS detector
  - » Requires no LN2
- Gas Cell
  - » 10 cm pathlength
  - » 1.5 mL volume for fast response
  - » Heated from 25 - 300°C
- FTIR mode
  - » Real-time analysis with ppm - % sensitivity
- GC-FTIR mode
  - » ng – mg sensitivity