

MIDAC TITAN-OL INSTALLATION

An innovative analyzer has been installed to monitor the air at 8 locations along the lock. Sniffer probes draw in samples from these locations to a central analyzer to determine the presence and amount of potentially unhealthful or hazardous chemicals in the air.

The analyzer works around the clock, unattended and automated, to provide measurements in real time. If a predetermined threshold for xxx or yyy is exceeded, audible and visual alarms are triggered, and an alarm is immediately broadcast over the Army network to personal computers in the lockmaster and other responsible officials' offices.



Installation Site



Ambient Air Intake

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The analyzer is based on FTIR (Fourier Transform Infrared) technology. Air is drawn into a sample cell where an infrared beam is passed through. Different molecules vibrate, rotate and stretch differently when exposed to the infrared energy. This leaves distinctive “fingerprints” on the IR detector, and the analyzer’s advanced software is able to simultaneously sort out all the compounds present in the air – and determine how much is there. In addition to providing immediate feedback to facility computers, data can be viewed and the instrument can be remotely controlled, calibrated and updated from remote locations over the internet.

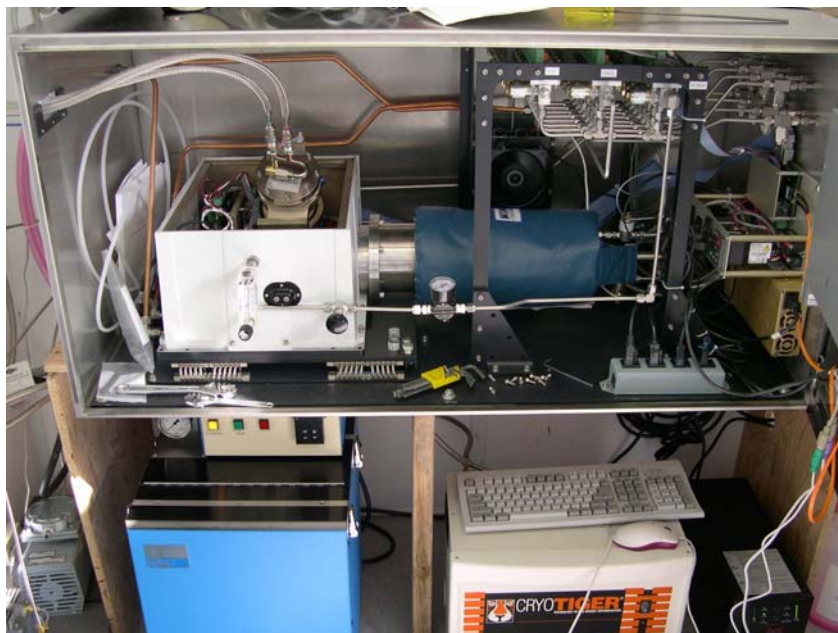


Instrument Shed Housing FTIR Analyzer



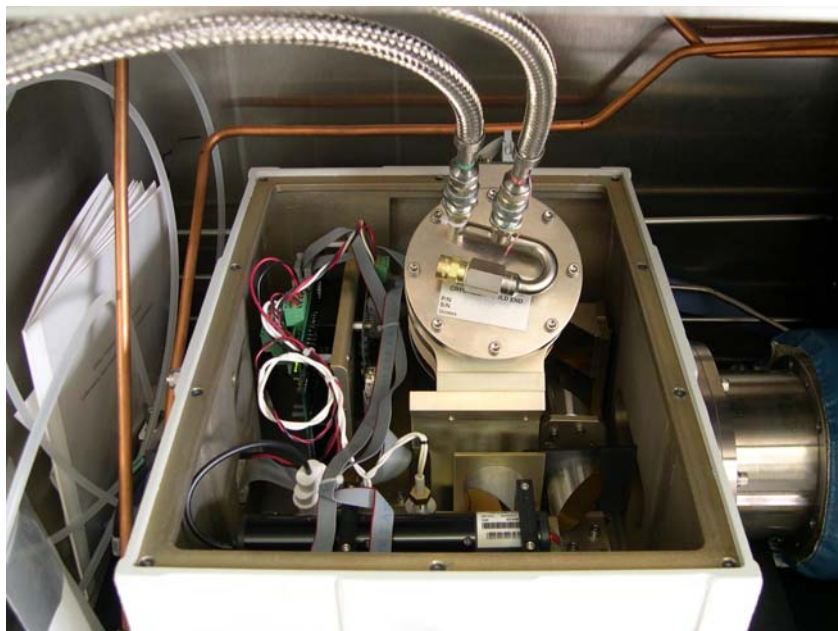
Instrument Exterior

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Instrument Interior

- heated 10 meter cell
- multi-line sample manifold
- temperature regulation
- vibration isolation



Cryogenic Detector Cooling

- 24/7 cooling without liquid nitrogen
- no operator intervention