

GAS • TRAC[®] FPL

FIXED-POINT LASER METHANE EMISSIONS MONITOR



FPL provides continuous methane emissions monitoring at gas production, transmission, and distribution sites.

GAS•TRAC® FPL

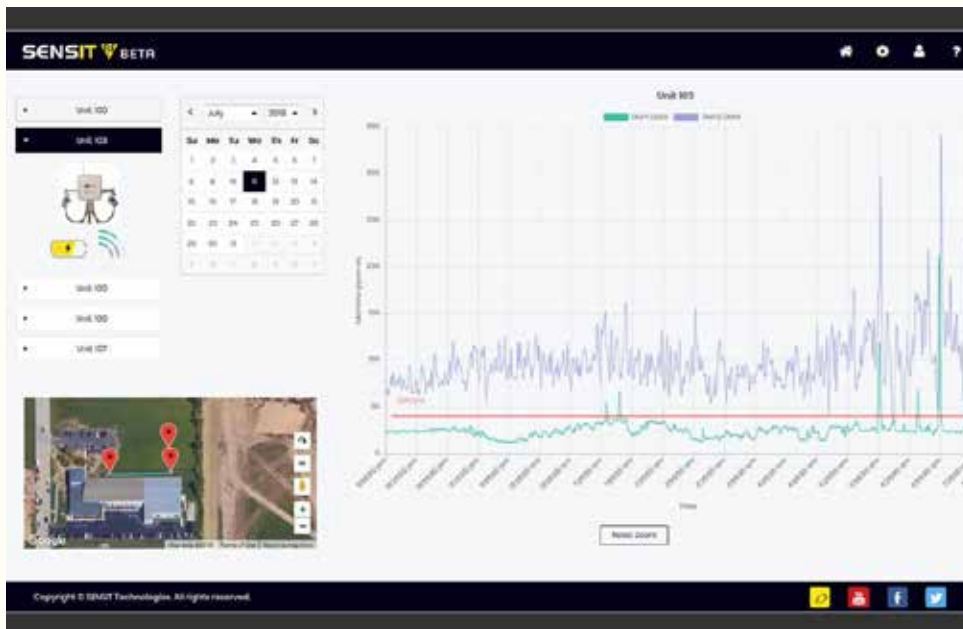
Open-path laser-based monitor capable of a broad range of detection and alarms.

Problems with fugitive methane emissions that require 24/7 monitoring? SENSIT Technologies introduces the **GAS•TRAC Fixed Point Laser!**

The FPL is methane selective and utilizes state of the art TDLAS (tunable diode laser absorption spectroscopy) technology, providing the ultimate solution in field performance, data management, flexibility, safety and security.

It can be deployed on-site in less than an hour. While considered a “fixed point” monitor, the FPL is easy to disassemble and reassemble where it is needed. No power? No problem. Integrated solar panels charge the built-in battery, making the FPL self-sustaining and perfect for remote locations like well heads, storage fields, compressor, metering and regulating stations.

Analytics and site data stream in real time via cellular for easy and reliable remote viewing.



Standard Features

- Methane selective
- Two optical assemblies for detection
- Up to 40 meter detection range
- Solar powered with built-in rechargeable battery
- Wireless communication to secure server
- Continuous datalogging
- Simple report generation
- Includes vane anemometer (wind direction and speed)
- Defrosting capability to prevent signal loss
- Ambient Temperature Monitoring
- Ambient Pressure Monitoring
- Relative Humidity Monitoring
- Dual Optical Assembly Configuration
- Reflector plate

Optional Features

- Tri-pod
- Ultrasonic Anemometer
- Visible or Audible Alarm
- RS-485 Modbus RTU
- Analog 4-20 mA
- RS-232 Serial Out

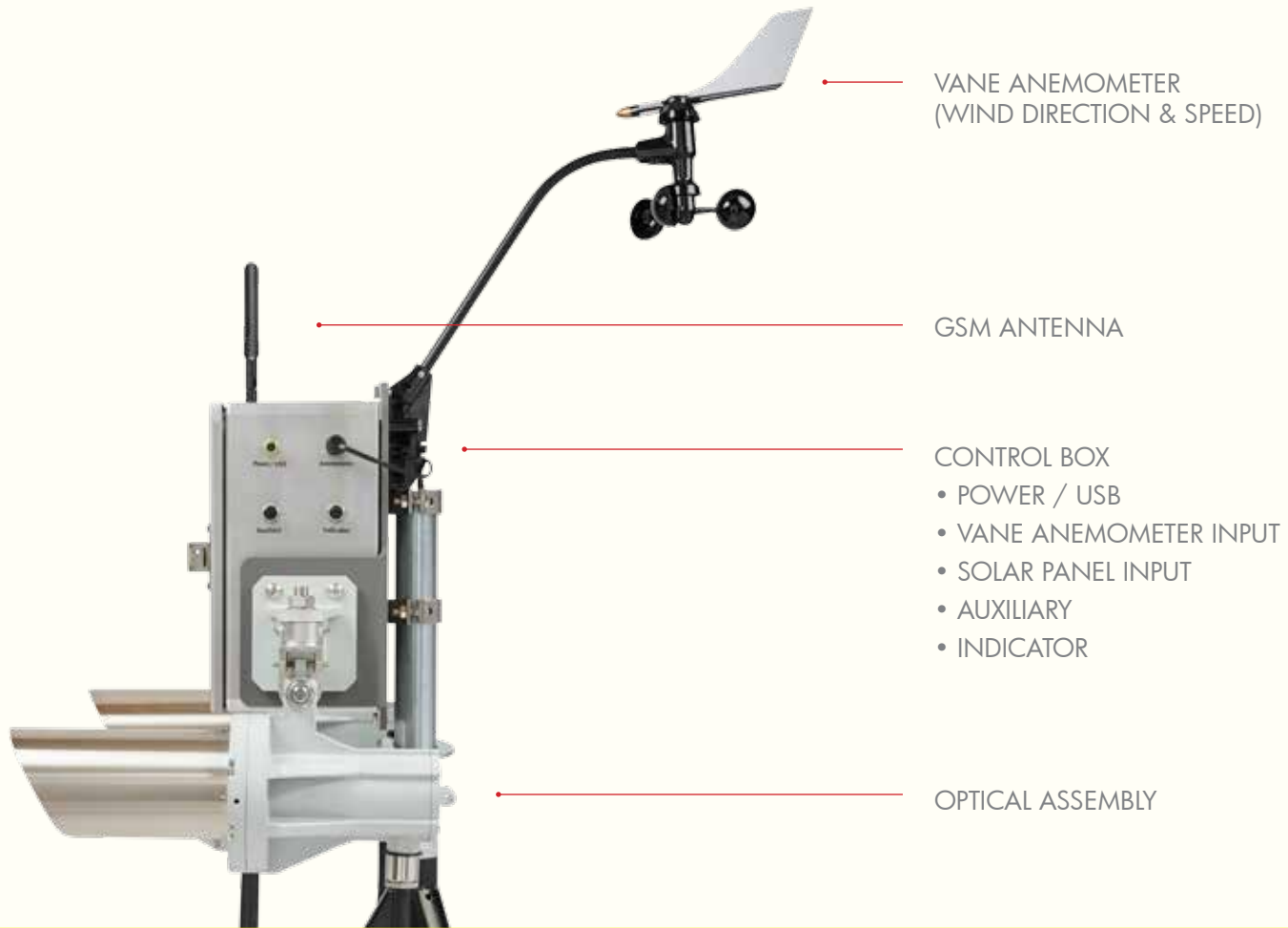


Applications

Natural Gas Industry

- Upstream
- Midstream
- Downstream

- Landfill
- Industrial
- Many More!



VANE ANEMOMETER
(WIND DIRECTION & SPEED)

GSM ANTENNA

CONTROL BOX

- POWER / USB
- VANE ANEMOMETER INPUT
- SOLAR PANEL INPUT
- AUXILIARY
- INDICATOR

OPTICAL ASSEMBLY

TECHNICAL SPECIFICATIONS

Detection Technology:	Open Path, Tunable Diode Laser Absorption Spectroscopy (TDLAS), methane selective
Instrument Type:	Infrared Laser
Configuration:	Single or Dual Optical Assembly
Methane	Detection Range: 0-10,000ppm-m
Resolution:	1 ppm-m
Sensitivity:	2.5ppm-m (250ppb @ 10m)
Alarms:	Adjustable (visual and audible)
Accuracy:	+/- 0.25 ppm-m at 10 meters
Response Time:	Less than 1 second
Detection Distance:	1-40m (3-131ft) standard, longer detection distance available
Power Requirement:	Built in Rechargeable Battery maintained by solar panel
Battery Life:	Up to 4 days (temperature dependent) without recharge via solar panel
Power Consumption:	Less than 2 watts
Operating Temperature:	-40C to 55C (-40F to 131F)
Operational Voltage:	18-24VDC
Operating Humidity:	Relative humidity ≤98%
Laser Safety:	Class IIIr
Enclosures:	Aluminum, NEMA 4 (designed to meet IP54)
Communication Interface:	Cellular, TTL (3.3V), Modbus RTU (optional, fully isolated), Analog 4-20 mA (optional), RS-232 (optional)
User Interface:	Monitor/Receive alerts via computer, smartphone, tablet
Weight:	22kgs (50lbs)
Size:	Optical Module- 340mm x 144mm x 265mm (13.5in x 6in x 10.5in) Reflection Plate- 500mm x 10mm x 400mm (20in x 0.5in x 16in)



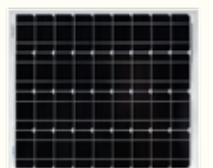
STANDARD KIT

Two Optical Assemblies
Reflection Plate
Controller Box
Vane Anemometer
Instruction Manual



OPTIONAL

Solar Panel
Tripod





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