



# UAV Based Flow Through Methane Sensor

**Model: DroneCHEM-FX**

**DRONECHEM-FX**  
Flow Through Methane Sensor

## Features

- Methane Detection - **DroneChem-FX**
- Detects Methane at Close Proximity
- Flow Through Air Sensor
- Gps Linked Via UAV
- Display on Ground Station: Graph and Map
- Small and Lightweight
- Quick Connect to UAV
- Real-Time Direct Wireless Data Download to Ground Station, Laptop, or Other Data Acquisition System
- Integrated Software
- Display on Ground Station: Graph and Map
- Small and Lightweight
- Fitted Carrying Case



**FX Carrying Case**

## Application

The **DroneCHEM-FX** is a flow-through air sensor for detection of methane. This light-weight UAV based unit can fly along pipelines or in areas of potential methane leaks pinpointing specific location of leaks.

## Description

The **DroneCHEM-FX** is a light-weight unit that connects to US Nuclear Corp provided UAVs. Utilizing this flow through air sensor detection method keeps workers out of harm's way. Detection is GPS tagged.



## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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# UAV Based Flow Through Methane Sensor

## Model: DroneCHEM-FX

### Specifications: DroneChem-FX

<b>Detector:</b>	Fan Driven Flow-Through Air Sensor
<b>Gas Measured:</b>	Methane (CH4) and methane containing gases (natural or similar)
<b>Sensitivity:</b>	0 to 10,000 ppm
<b>Flight Speed:</b>	Best results – 8 knots; Max: 30 knots
<b>Accuracy:</b>	±10%
<b>Electronics:</b>	Integrated software for ground station, laptop, or other data acquisition system.
<b>Display:</b>	Real-time wireless data download to ground station, laptop or tablet. Minimum, Maximum, and Average readings
<b>Environmental Temp:</b>	32° F to 104° F (0° C to 40° C)
<b>Humidity:</b>	10%– 95%
<b>Detection Speed:</b>	60 seconds for highest accuracy
<b>Detector System Power:</b>	From UAV power

### Weight and Dimensions:

<b>Dimensions with Sensor Head:</b>	7.6" L x 4.75" W x 2.1" H (19 L cm x 12 W cm x 5.4 H cm)
<b>Weight:</b>	1 lb. (0.45 kg)
<b>Carrying Case:</b>	Fitted Case with quick release to UAV

<b>DRONECHEM-FX</b>	
Interchangeable sensor head	Yes
Digital LCD Display	Yes
Min, Max, Average readings on screen	Yes
Field Replaceable Battery	Yes
Remote Sensor Capability	Yes
External Control Outputs	Yes
Temp and HR Sensor - Optional	Yes


External Control Outputs	Yes
Audible Alarm	Yes
High and Low Alarms	Yes
0-5 VDC Analog output	Yes
Zero Calibration capability	Yes
Span Calibration capability	Yes
Internal Data Logging Capability	Yes
PC connection and cables	Yes



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