Montgomery County Fire & Rescue Monthly Basic Training MBT Meters (Ventis & Sensit)	Drill: **19-11** Month: **Nov** Time Required: All Topics 120 Mins

PREPARATION: Review the provided video for the Ventis Pro Multi Gas Monitor and Sensit Combustible Gas Leak Detector

EQUIPMENT: A/V equipment suitable for viewing videos
Ventis Pro Multi Gas Monitor and Sensit Combustible Gas Leak Detector

TARGET AUDIENCE: All firefighters/rescuers listed on the IECS list in Montgomery County

APPARATUS/PERSONNEL: Any apparatus carrying the proper meters

SKILLS ASSESSED: Ability to use all functions of the two meters

REFERENCES: **Ventis Pro Multi Gas Monitor Product Manual**
Sensit Combustible Gas Leak Detector Product Manual

OBJECTIVES: By the end of this training, personnel will be able to:

- Properly turn both meters on with the proper start up procedures
- Identify alarm levels for both meters
- Properly zero the Ventis meter and identify the times when zeroing needs to take place
- Know the functions of the "A', "B", and "C" buttons on the Sensit meter
- Identify proper maintenance and care for both meters

BACKGROUND/SIGNIFICANCE:

- Montgomery County is a unique area with urban, suburban, and rural areas with over one million residents
- Incidents in Montgomery County are very diverse and can sometimes require specialized equipment
- A variety of meters are used by MCFRS for early detection of hazards that may not be detectable otherwise by first responders. Proper training and use of these meters are vital to keep MCFRS personnel safe and aware of possible unknown IDLH environments

LESSON PLAN:

- Review Ventis Pro Multi Gas Monitor Product Manual
- Review Sensit Combustible Gas Leak Detector Product Manual
- Watch MCFRS Meters Video HERE

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PRACTICAL SKILLS:

http://www.indsci.com/gas-detectors/ventis-pro/ventis-pro-simulator/

Discuss scenarios:

- **Howard County Gas Explosion**
  - **Dispatched as AFA- arrive to find active gas leak from parking lot**
    - **07:00 on a Sunday-What if M-F during business hours?**
  - **Unable to shut off gas**
    - **Gas Company arrives and can't rapidly control leak.**
  - **Found 50% LEL in lobby**
    - **Extremely high levels (flammable range is 5%-15%)**
    - **Life Safety Considerations**
      - **How fast can you do a primary search?**
      - **What additional resources could be needed?**
    - **Apparatus positioning**
      - **How do we position for an AFA and how is it different for a gas leak?**
      - **What conservative source do we use for initial isolation and evacuation?**
- **Maine Propane Explosion (FF LODD)**
  - **What are the property differences between propane and natural gas?**
  - **How does this affect our on-scene fire department operations?**
  - **How is propane stored?**
    - **Cylinders?**
    - **Tanks?**
  - **What is the flammable range for Propane?**