

Residential Methane Detectors (RMDs)

Natural Gas Detector Distribution Program at NYSEG and RG&E

RMD Program Overview



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- Future





















AVANGRID NY Gas



Iberdrola S.A.

L▶AVANGRID

L Networks

L► New York

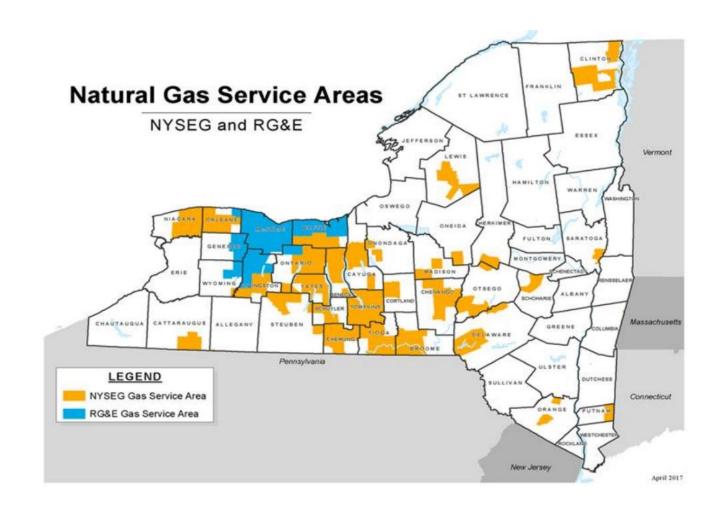
L► NYSEG

L▶ RG&E

RG&E - 319,000 natural gas customers

NYSEG - 270,000 natural gas customers





RMD Research and Development at GTI



- Laboratory & Field Tests
- Various residential methane detectors evaluated
 - North American markets
 - UL approved
- Several testing parameters such as:
 - Methane detection based on LEL's levels
 - Influences of household chemicals
 - Relative humidity
- Sufficient detector performance
 - Reliability
 - Capability (detects lower levels of methane)



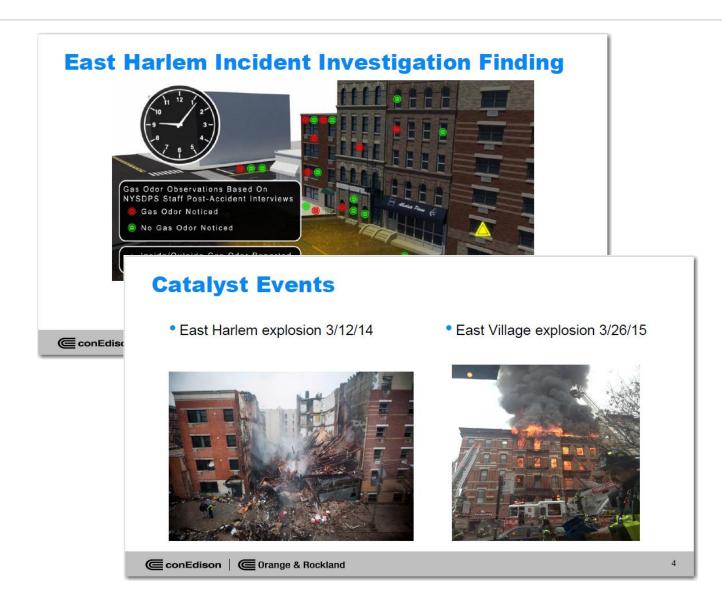
(Reference GTI Final report OTD 1.14g3) Residential Methane Detector final report dated 4/7/21)



RMD Non-competitive Strategic Benchmarking

Rick Trieste at ConEd

- 10% LEL
- Battery Operated
- Customer Install
- Currently in Market



RMD Model Selection



- 10% LEL
- Battery Operated
- Customer Install
- Currently in Market



DeNova Detect 310B Battery Operated Natural Gas Alarm

- Superior MEMS Sensor Technology
- Battery Only Power Allows for Placement Anywhere
- 85db Alarm + Voice Alerts in English and Spanish
- 10% LEL Methane
- Listed to UL1484
- Wireless Versions Available: LoRaWAn, AMI, LTE and more
- 6-Year Life, 6-year Limited Warranty

RMD Distribution Logistics



North American Distributor: eAccess Solutions

- Warehousing, individual custom kitting, & residential shipping
 - 3PL Services
- Delivery & tracking verification
- Support services
 - Return processing
 - Warranty execution
 - Technical support
- Online video instruction





eAccess Solutions is an officially licensed North American distributor for Honeywell, Universal Security, Resideo, First Alert and New Cosmos/DeNova Detect safety products. Since 2007 eAccess has worked with hundreds of utility companies to provide their customers the (Methane, Smoke/Fire, Propane, CO, Water) detection equipment they need to stay safe.

- Custom end user kitting/shipping
- 3PL services
- Bulk shipments

- Warehousing
- Custom branded online purchase portals
- Coupon discount offers
- Phone order processing/support
- More

RMD Internal Coordination



- Funding
- Addresses
- Kitting Materials
- English/Spanish manual
- Internal Communication
 - Customer Service
 - Field Workers (Emergency Response)
 - Fire Departments







RMD Internal Coordination



If the natural gas detector alarm sounds, respond immediately! Don't assume it's a false alarm.



- Assume there's a dangerous natural gas leak. Leave the area quickly, taking everyone with you.
- DO NOT use the telephone or any electrical appliances including light switches, garage door openers, doorbells, radios, TVs or cell phones. A spark from any of these sources could ignite the gas, causing a fire or explosion.
- DO NOT assume someone else will report the leak.
- From a safe location, call 911 or call NYSEG's gas emergency number at 800.572.1121. Provide the exact location, including cross streets, and inform the dispatcher of any recent sewer construction or digging activities nearby.
- DO NOT go back inside your home or building until NYSEG personnel say it is safe to return.
- DO NOT disconnect the gas detector battery to silence an alarm. A spark could cause an explosion. Leave the area quickly and do not go back inside until NYSEG or emergency responders say it is safe to return.

NYSEG's residential natural gas detector program

This device provides early warning of leaking natural gas inside your home. Your experience with this technology will help us improve natural gas safety in your community.

Natural gas leaks can be hazardous

Natural gas is delivered safely and efficiently to our homes for cooking, heating, water heating and other household uses. But on rare occasions, natural gas may leak from home appliances, equipment, piping connections or underground pipelines. If natural gas accumulates indoors and is ignited by a flame or spark, a deadly fire or explosion may result.



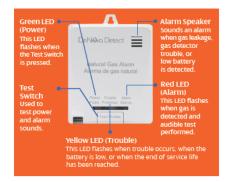
How a natural gas detector protects vour family

Natural gas is colorless and odorless. A distinctive, pungent odor, similar to rotten eggs, is added to natural gas so that you will recognize it quickly. However, this odor may fade or be masked by other smells, so relying on your nose is not a sure way to detect a gas leak.

Natural gas consists primarily of methane. The natural gas detector constantly measures the concentration of methane in the air, and sounds an alarm to alert you before dangerous, flammable levels are reached.

How it works

If your device detects a critical level of natural gas in your home, a red light flashes, and a loud alarm beeps. Please refer to your user's manual for specific natural gas alarm characteristics.



Inside natural gas safety inspections

As part of our commitment to safety, we are conducting safety inspections of inside natural gas meters and service lines. These safety inspections are required by New York State and ensure the safe delivery of natural gas to your home. We may be in your neighborhood to complete this free inspection. If you're not home when we arrive, we'll leave information on how to reschedule. Thank you!



User tips

- · Your natural gas detector should be installed inside your home in a room where a natural gas appliance is located, such as a furnace area, kitchen or laundry room where a leak could occur.
- Install your detector at least 10 feet away from your natural gas appliance.
- · Your detector should be installed and mounted 4 to 12 inches from the ceiling.
- Place detector in an open area away from curtains, windows, doors, or sources of water or humidity.

If you have children in your home

- · Keep small children away from the unit and do not let them play with it.
- · Explain to children what the different lights and alarm sounds mean.
- Teach children to leave the home immediately and tell a trusted adult if the unit begins to flash or beep.

Test the device weekly

To test your natural gas detector, press the "test" button until you hear the device beep once and release to see the green LED light blink. To the test the audible alarm, press and hold the "test" button for 5 seconds. You'll hear the device beep twice, then release to see the red LED light blink along with the audible message. Please refer to your user's manual for full testing procedures and battery replacement.

If the alarm ever fails to test correctly, contact the manufacturer for a replacement immediately. Please see your user's manual for comprehensive installation, maintenance and testing instructions.

Help prevent natural gas leaks

Never depend on your natural gas detector as a substitute for proper equipment installation, use, and maintenance.



Have all gas appliances installed, serviced and annually inspected by licensed or qualified professionals. Read and follow the manufacturer's instructions for operating your gas equipment.

Protect natural gas pipelines in your area

Call 811 before you dig. and insist that any contractors who work for you do the same. The free 811 service UDIG·NY will arrange for the marking



of nearby natural gas pipelines and other buried utility lines so excavation can occur a safe distance away from them. Gas pipelines are marked with yellow flags or paint.

State law requires you to notify 811 at least two full working days before any excavation starts, excluding the day of notification, weekends and legal holidays. Call UDig NY at 811 or 800.962.7962, or use the online request system at udigny.org.

Smell Gas? Act Fast!

From a safe location, call 911 or call NYSEG's gas emergency number at 800.572.1121.

inform the dispatcher of any recent sewer construction or digging activities nearby.

FINAL NNGC001 Design 03.22.22

RMD Internal Communication



Direct-shipped to residential gas customers

Alarm activates when level of natural gas reaches or exceeds 10% LEL

Customer-installed, instructions on how & where to install described

in user manual

NYSEG/RG&E is not installing

Warranties provided by manufacturer

- NYSEG/RG&E is not maintaining
- Fully battery-operated, stand-alone devices
- Not wi-fi enabled, not "smart" devices, etc.
- Customers should direct questions to manufacturer
- Internally distributed sample detectors to gas operations centers



RMD Early Success Story



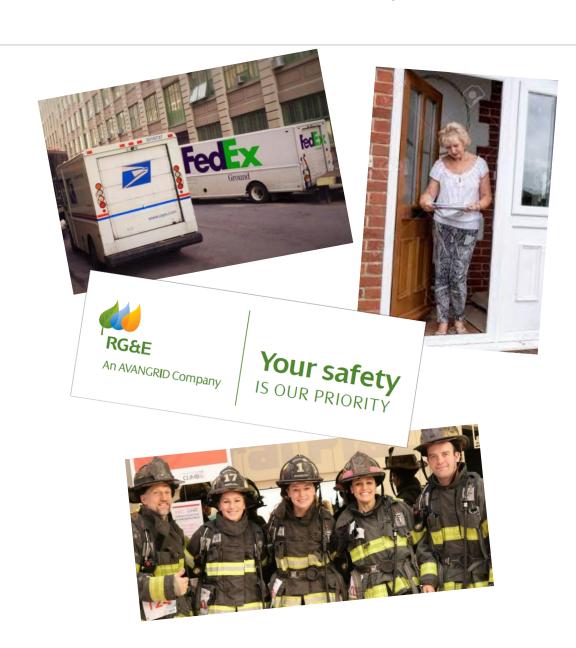
- Single-family home
- Mother & Son
- Installed per instructions just weeks earlier
- Detector alerted residents
 - "Danger, gas leak explosion risk. Evacuate, then call 911."
- Customer did not smell gas
- Fire & RG&E responded
- Stopped leak at meter



RMD Process Improvements



- Return rate assessment
 - 0.5%
 - 1.8%
 - 0.6%
- Delivery refusal mitigation
 - Sticker on front of
- Fire Departments communication
- FedEx & USPS
- Global chip shortage



Future of RMDs



- Program continuation
- Smart Grid (AMI)
 - Wireless
 - ITRON
 - Gas Control Dashboard
- Customer checkout options
 - NG
 - NG/CO
 - Smart home
- Truck stock
- Expansion to sister companies

SUMMARY SLIDE

