



## Equipment Specs

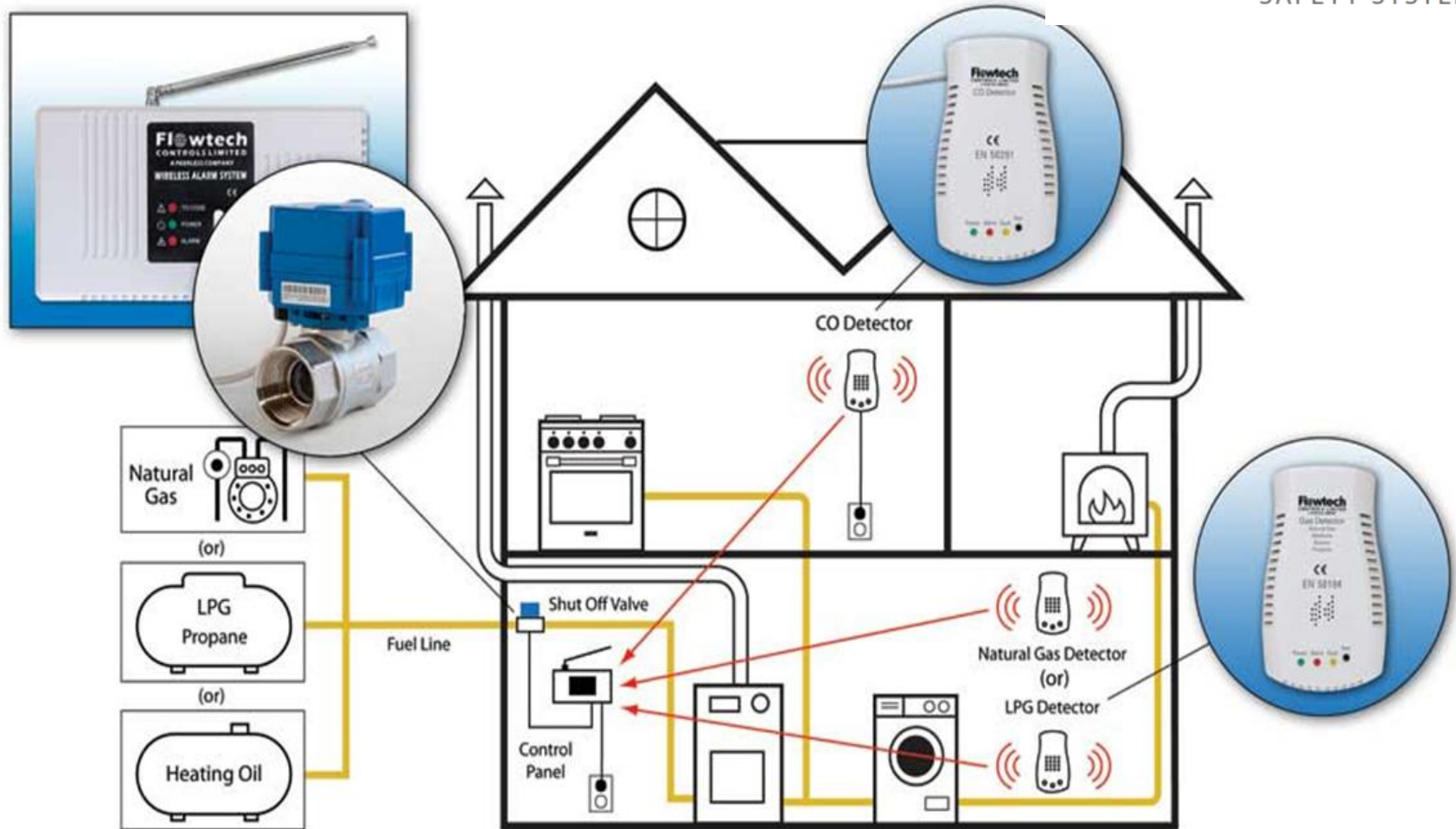
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# How the System Works Overview



The Flowtech Safety Systems detects dangerous levels of Gas or LPG and CO. Once a leak is detected a signal is sent to the control panel which activates the auto shut-off ball valve. Cutting off the danger from the source which saves lives and prevents illnesses for CO.

# Why Flowtech is a superior System

## UL vs EN standards

At	The UL 2034 standard	Vs	At	The European Standard - EN50291
30 PPM present	Alarm will sound after CO has build-up for more than 30 days Ignores dangerous low-level concentration of CO for a long-term period		30 PPM present	Alarm activates after 120 minutes
70 PPM present	Alarm will sound within 1 - 4 hours Ignores high levels of CO for at least 1 hour before alarm will sound		50 PPM present	Alarm will sound within 60 - 90 minutes
150 PPM present	Alarm will sound within 10 - 50 minutes		100 PPM present	Alarm will sound within 10 - 40 minutes
400 PPM present	Alarm will sound within 4 - 15 minutes		300 PPM present	Alarm will sound within 3 minutes

- Adhering to the UL standards, exposes people up to 30 PPM for at least a month
  - Inadequately protecting the public
- OSHA guidelines state maximum exposure over an 8 hour time period is 35 PPM.
  - FDNY CO detectors alarm at 35 PPM
- Flowtech Safety System is a superior system, utilizing EN standards
  - Sensors' activation causes the valve to immediately close, eliminating the source of the problem
  - Prevent the public from becoming ill and saves lives.

# Sensors

## CO Detectors

The shut off kicks in if it detects 30 PPM over 120 minutes



Levels	Shut Off Time
50 PPM	60-90 Minutes
100 PPM	10-40 Minutes
300 PPM	3 Minutes
400 PPM	Immediate

*UL Standard is 70 PPM*

**Carbon Monoxide  
>9 PPM Dangerous**

## Gas/LPG Detectors

**Flowtech Alarms at 1%**



### Explosive Range

LPG 2.1 - 9.6%

Gas 5 - 15%

LPG

1000-10000 PPM

Gas

1000- 5000 PPM

- CE - complies with the safety, health, environment and consumer protection directives
- Sensor are UL 2075 and UL2034 approved for Visual and Audible Alarms, (90 db)

# Wireless Control Panel



1. Panel provides power to the shut-off valve, uses  $< 2W$
2. Monitors & Receives the wireless signals from the Detectors
3. Range of 200 Meters or 656 Feet
4. Operates using the 433 Frequency band
5. Operates up to 40 Detectors
6. CE Approved

# Motorized Ball Valve Shut-Off



Closing Time: 5-10 Seconds

Operating Torque 30-60 Kg/cm, <1.2W

Valve tested to 150 millibars = 2.175 psi

Can be install in-less than hour on Gas or Oil Lines within a property

Installed by certified and or license installer, piped into the internal property gas line after the Gas Meter. Valve is either  $\frac{3}{4}$ " , 1" or  $1\frac{1}{4}$ " fitting

Motor can be installed separately at a property's relay panel to shut-off the Gas Main in commercial properties

Valve is CSA and CE approved