

Utility Safety Controls



Since 2000

# ISIMET® offers a full line of Utility Controllers for:

Schools



Drug Testing Labs



Commercial Kitchens



Fire Station Kitchens



Gas Fire Pits & Grills



Since 2000, **ISIMET** has been the leading manufacturer of utility controllers. Headquartered in Texas, **ISIMET** designs and manufactures in the United States.









**ISIMET** programmable utility controllers control access to gas, water and electricity in school science labs, drug testing labs, commercial kitchens and fire station kitchens.

**ISIMET** enables authorized users to control when utilities (gas, water, electricity) are available thus preventing unauthorized use, accidents and vandalism.



**HELPS KEEP PEOPLE, TEACHERS AND FACILITIES SAFE**

# ISIMET UTILITY CONTROLLERS:

PRODUCT							
							
<b>LP1</b>	<b>UTC</b>	<b>LAv2</b>	<b>LSP-GO</b>	<b>DLA</b>	<b>KLA</b>	<b>FLA</b>	<b>BGC</b>
APPLICATION							
-School Science Labs/Shops	-School Science Labs/Shops	-School Science Labs/Shops	-School Science Labs	-Drug Testing Facilities	-Commercial Kitchens	-Fire Station Kitchens	-Community Gas Grills & Fire Pits
DESCRIPTION							
-Complete Utility Control Package -Controls access to gas, water, electricity, and fan	-3-5 Switch Utility Controller -Controls access to three to five utilities (gas, water, electricity, fan/other)	-1 or 2 Switch Utility Controller -Controls access to one or two utilities (gas, water or electric and fan/other)	-Gas-only Utility Controller -All-in-one enclosure includes gas valve assembly	-Shuts off water supply -Ensures integrity of urine drug test -Complies with DOT 49 CFR Part 40 collection/security requirements	-Controls access to gas -Detects natural gas leaks if used with optional Fuel Gas Sensor and/or Gas Pressure Transmitter; disables gas if leak is detected or kitchen is not in use	-Disables gas and electricity to fire station kitchens and gas bbq's when fire call is activated	-Controls when gas is available -Prevents unauthorized and unattended use -Conserves gas
INCLUDED COMPONENTS							
-Utility Controller -Remote Emergency Shut-off Button -Fuel Gas Sensor -Monitoring Beacon -Emergency Shower Monitor -S and E-Series Enclosures	-Utility Controller	-Limited application Utility Controller	-Enclosure contains everything you need to control gas including gas valve assembly	-Water Controller	-Gas Controller	-Fire Station Kitchen Controller	-BGC Basic Gas Controller
OPTIONS							
-Gas Pressure Transmitter -Teacher's Station/Prep Controller (LAv2)	-Gas Pressure Transmitter -Remote Emergency Shut-off Button -Fuel Gas Sensor -Monitoring Beacon -S and E-Series Enclosures -Emergency Shower Monitor	-Gas Pressure Transmitter -Remote Emergency Shut-off Button -Fuel Gas Sensor -Monitoring Beacon -S and E-Series Enclosures -Carbon Monoxide Monitor	-Fuel Gas Sensor -Remote Emergency Shut-off Button	-Solenoids -Valve Assemblies	-Gas Pressure Transmitter -Remote Emergency Shut-off Button -Fuel Gas Sensor -Monitoring Beacon -Solenoids -Carbon Monoxide Monitor	-Gas Solenoid Valve Assemblies -E-Series Enclosure -Outdoor Grill Controller (OGC) -Fuel Gas Sensor -Remote Emergency Shut-off Button	-Electronic Ball Valve -Solenoid -7-day programmable timer switch



# ISIMET OPTIONS:



## S-Series Companion Enclosure

- Operates gas and water (additional options available)
- Utilizes 1-4 solenoids
- Metal enclosure and door
- Easy access for installation and maintenance



## E-Series Companion Enclosure

- Operates electricity and/or fan
- 4-24 circuits
- Metal enclosure and door
- Easy access for installation and maintenance



## The LA Series Controller

- 1 or 2 switch controller
- Restricts activation of utility; only teacher or authorized administrator can activate
- Used in situations requiring only one or two utilities
- Integrates with other controllers



## Fuel Gas Sensor Control

- Transmits signal to controller when combustible gas is detected; alerts controller and disables gas



## Monitoring Beacon

- Mount in exterior of classroom (corridor)
- Activated by emergency
- UTC only



## Solenoids

- Normally closed
- Quiet operation
- Lead-free available
- Latching option available for hard or corrosive water areas



## Electronic Ball Valves

- Safer, nearly maintenance-free alternative to solenoids
- Longer life & low power consumption
- Full port
- No water hammer or humming



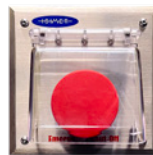
## Emergency Shower

- Notifies if water is flowing
- UTC only



## Gas Pressure Transmitter

- Performs gas pressure stability test prior to initialization of gas. Disables gas if test fails/ leak is detected.



## Remote Emergency Shut-off Button

- Automatically turns utilities off when button is pushed; accessible to all



## Outdoor Grill Controller (OGC)

- Remotely enables and disables gas grill
- Includes time-out function
- FLA only

(See [isimet.com](http://isimet.com) for additional options.)



## CODE REQUIREMENTS:

### National Fire Protection Association

- NFPA 101 Life Safety Code:

*“This code requests that consideration be taken in regards to the character of the occupancy, the capabilities of the occupants and other factors necessary to provide occupants with a reasonable degree of safety—a **school classroom, where students are utilizing natural gas and have little or no experience with open flames, should be afforded the utmost safety when designed.**”*

- NFPA 45 – Section 6.5.3.1 Provisions within the Emergency Action Plan and Section 10.2.3.4 Storage and Piping System:

*There should be “**an emergency gas shutoff device in an accessible location near one of the egress doors . . . in addition to manual point-of-use valve.**”*

- NFPA 54 – Section 7.9.2.4 Shutoff Valve for Laboratories:

*“Each laboratory space containing two or more gas outlets . . . **shall have a single shutoff valve through which all such gas outlets are supplied. The shutoff valve shall be located within the laboratory or adjacent to the laboratory’s egress door and identified.**”*

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### International Fuel Gas Code

- Section 409 Shutoff Valves

409.6 Shutoff Valve for Laboratories:

*“Where provided with two or more fuel gas outlets . . . each laboratory space in educational, research, commercial and industrial occupancies shall be provided with a single dedicated shutoff valve. The dedicated shutoff valve shall be readily accessible, located within the laboratory space served, located adjacent to the egress door from the space and shall be identified with approved signage . . .”*

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### National Science Teachers Association Guide to School Science Facilities

- Utilities – Page 63 “*Emergency shutoff for water, electrical service and gas should be near the teacher’s station, not far from the door, and not easily accessible to students.*”
- Gas – Pages 22-23 “*The control valve for shutting off the gas . . . should be accessible only to the teacher. . . The room should have an emergency shutoff valve activated by pushing a highly visible button with a keyed reset mechanism to turn the gas supply back on.*”
- Electricity – Page 22 “*Emergency shutoff for electrical service should be available to the teacher, but not easily accessible to students.*”



Utility Safety Controls Since 2000 [www.isimet.com](http://www.isimet.com) (903) 781-6994