NAME	TOLERANCE UNLESS SPECIFIED	SCALE 1:4	ISIMET	PART NO.			
ISIMET LP1 Laboratory Utility Safety System				CAD NUMBER			
FOR Science Laboratories	DECIMALS: TWO PLACE ± THREE PLACE ±	REVISION			BY	CH	EC	DATE
	FRACTIONS: ±	A CREATED DRAWING			GY			09/30/20
	ANGLES: ±°	B						
	SURFACE TEXTURE √	C						
		D						
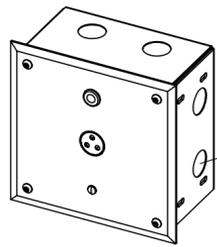
ISIMET Fuel Gas Sensor (FGS)
Adjustable PPM Gas Detector.
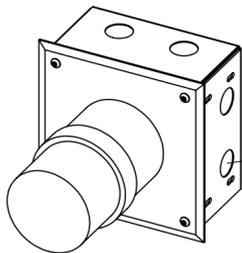
ISIMET Monitoring Beacon
Beacon Flashes upon Emergency.

OPTIONAL

ISIMET Gas Pressure Transmitter
(Installed in S-Series)
Detects leaks in gas
line prior to startup.
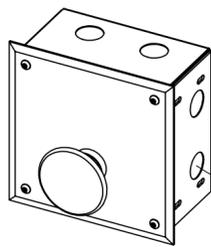
ISIMET Panic Button (IPO)
N/O Panic Button
Multiples can be installed and wired in parallel.

24VAC Solenoid Power Wire
(18AWG/4 Shielded per Connection)

24VAC Control Wire
(18AWG/4 Shielded per Connection)

HW CW G

Dedicated 120VAC, 15A

Hot Water (1")
Cold Water (1")
Natural Gas (3/4")

Relay
(Controls Electrical Contactor)

120VAC Electrical Contactor

120V Line

120V Load

Exhaust Fan Relay
(Controls 120V Exhaust Fan)

ISIMET E-Series
(1) Electrical Contactor (12 Circuits)
(1) Relay for Exhaust Fan
(1) 24VAC Relay for Electrical Contactor
(1) Ground Lug

ISIMET Utility Controller (UtC)
4-Switch Independent Utility Controller
Gas, Water, Electric, and Exhaust Fan.

Inputs
(Remote Panic Button / Fuel Gas Sensor / Shower Monitor)
Optional: (EMS / Fire Alarm Input)

Outputs
(E-Series / Fan Control / Beacon)
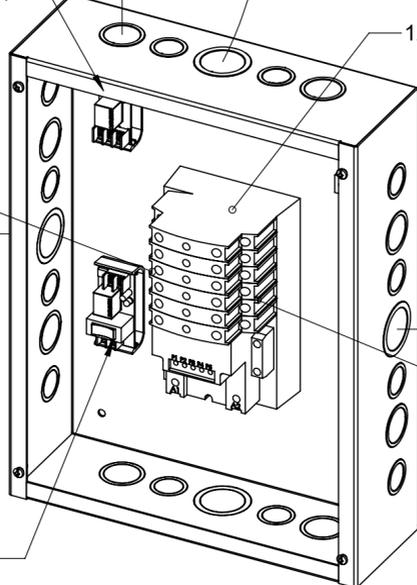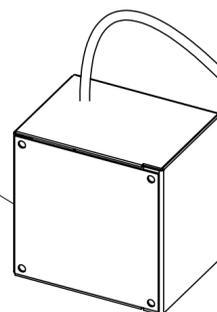
ISIMET S-Series
(1) 24VAC Gas Solenoid (3/4")
(2) 24VAC Water Solenoid (1")
(2) Unions and Y-Strainer
(2) Ball Valves, 1"
(1) Ball Valve, 3/4"

Scale: 1:6

HW CW G

ISIMET Emergency Shower Monitor
Attaches to Emergency Shower and asserts panic upon detecting water flow.
Recommend installation of water hammer/shock arrester/arrestor.
(Monitor Only: Does NOT control the water to Eyewash/Shower Stations)

Use 18AWG/4 Shielded (Not Included) for Control Wiring.