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AMERICAN GAS SAFETY

c UL us LISTED

AGS1000Si Datasheet

Single Output Utility Controller

UTILITY CONTROL SYSTEM
MERLIN 1000S

Gas On   Timeout
Testing   EM Stop
Test Fail   Gas Detected
Pressure Low   CO₂ High

EMERGENCY SHUT OFF

OFF / ON

⚡ Isolate from Mains before removing this cover!

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PROC CONT EQ
E464760

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- **UL 61010 Listed Controller**
- **Clear LEDs Display System Indications**
- **Keyed ON/OFF Authority Over Utilities**
- **BMS & Fire Panel Connectivity**
- **QR Code For Quick Access To Product Information**
- **Automatic Emergency Utility Shutdown In Alarm**
- **Front Mounted Panic Button For Quick Shutdown**
- **Automatic Time-Out Feature (Disabled, 2, 4 or 8 hours)**
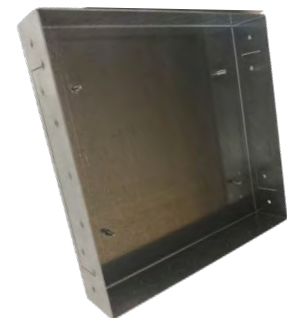
Product Overview

The UL 61010 listed Merlin 1000Si Laboratory Utility Controller has been designed specifically for use in School and University Laboratories. The Merlin 1000Si is designed to give the teacher full control over the incoming gas supply with the lockable key-switch operation. In built connectivity allows for connection to existing fire alarm and building management systems and with its easy to use system status panel and labeled PCB the Merlin 1000Si is easy to install and to operate.

The Merlin 1000Si can work in conjunction with carbon dioxide, natural gas, carbon monoxide and LPG sensors. The Merlin 1000Si also has a built in "timeout" facility which will automatically shut off the gas solenoid valve at the end of a specific time period, this time period can be adjusted to 2, 4, 8 hours or can be overridden if required.

Popular Applications:

✓ K-12 and Higher Education Science Classrooms

✓ Automatic Isolation Of Gas Supply Upon Gas Detection, Fire Alarm or Emergency Panic Button Activation

✓ Designed to meet NSTA guidelines & ICC Code.
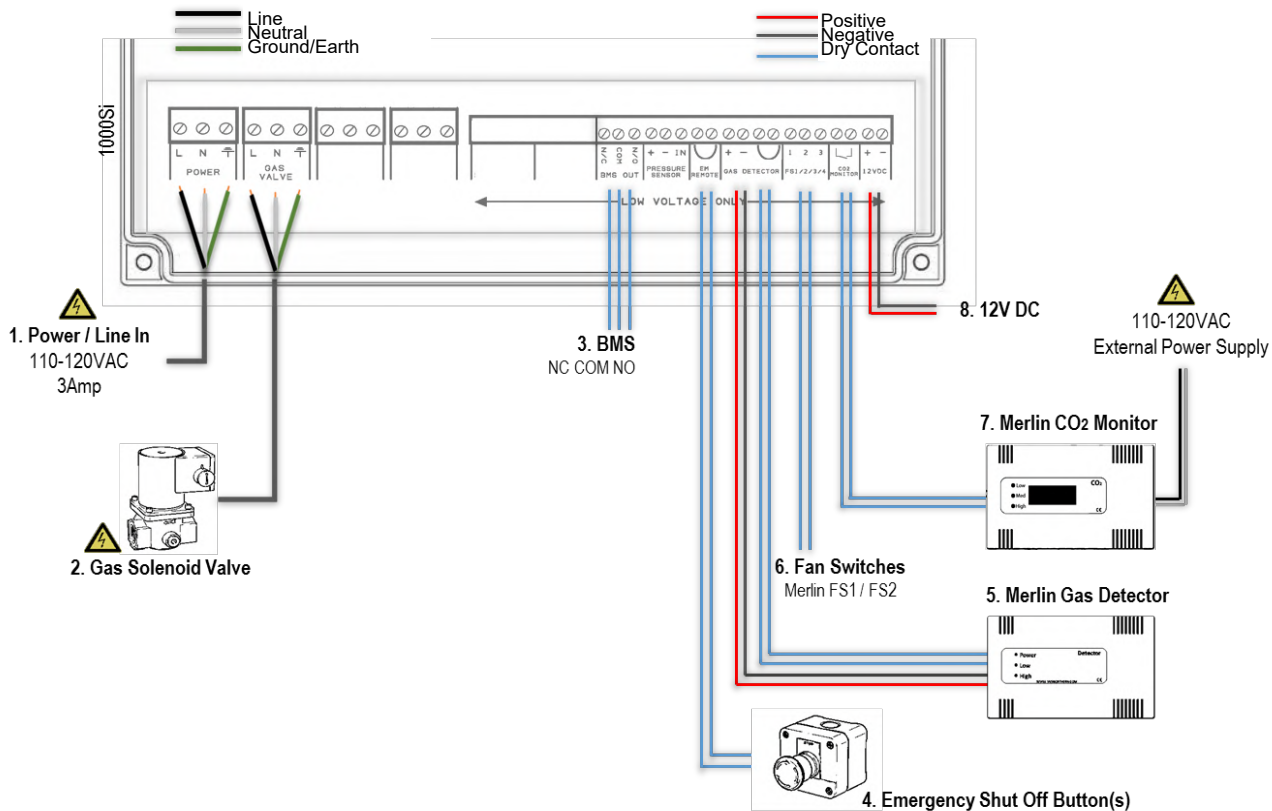
✓ Keyed Utility Control with Emergency Shutdown

FLUSH MOUNT KIT AVAILABLE

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Product Specifications

Model:	Merlin 1000Si
Visual Indication	LED
Mains Electrical Power Input	110-120VAC
Gas Valve Output	110-120VAC
Current Consumption	12W max (50mA) @ 120VAC
Internal Fuse	3.15A
Gas Valve Output	3.15A
Operating Temperature	32 - 104°F 0-95%RH Non-Condensing
Audible Alarm Buzzer dB	65 dB (300mm distance in quiet conditions)
Housing Material	Polylac PA-765 Flame Retardant
Flame Rating	UL 94
UL Approval Reference	UL 61010-1 E464760
O/All Dimensions (H x W x D) inch	7.08 x 10 x 3.03"
Language:	English

Merlin 1000Si Wiring Example

Line
Neutral
Ground/Earth

Positive
Negative
Dry Contact

1000Si

L N ⏚ POWER   L N ⏚ GAS VALVE

N/C COM N/O BMS OUT   + − IN PRESSURE SENSOR   EM REMOTE   + − GAS DETECTOR   FS1/2/3/4   1 2 3 CO2 MONITOR   + − 12VDC

LOW VOLTAGE ONLY

1. Power / Line In
110-120VAC
3Amp

3. BMS
NC COM NO

8. 12V DC

110-120VAC
External Power Supply

7. Merlin CO₂ Monitor

2. Gas Solenoid Valve

6. Fan Switches
Merlin FS1 / FS2

5. Merlin Gas Detector

4. Emergency Shut Off Button(s)

Find out more

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