

# CGS1000S+ Datasheet

## Dual Output Utility Controller With Gas Pressure Proving



**UL 61010 Listed  
 Controller**



**Clear LEDs Display  
 System Indications**



**Keyed ON/OFF  
 Authority Over  
 Utilities**



**BMS & Fire Panel  
 Connectivity**



**Gas Pressure  
 Proving - Low &  
 High Monitoring**



**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 1000S+ Laboratory Utility Controller has been designed specifically for use in School and University Laboratories. This controller is to be used to carry out a gas proving test on the pipe work in order to highlight if there is a gas appliance open or a gas leak in the laboratory. The Merlin 1000S+ is designed to give the teacher full control over the incoming utilities with the lockable key-switch operation & touch buttons. 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 1000S+ is easy to install and to operate.

The Merlin 1000S+ can work in conjunction with carbon dioxide, natural gas, carbon monoxide and LPG sensors. The Merlin 1000S+ 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

## Gas Proving Proving Overview:



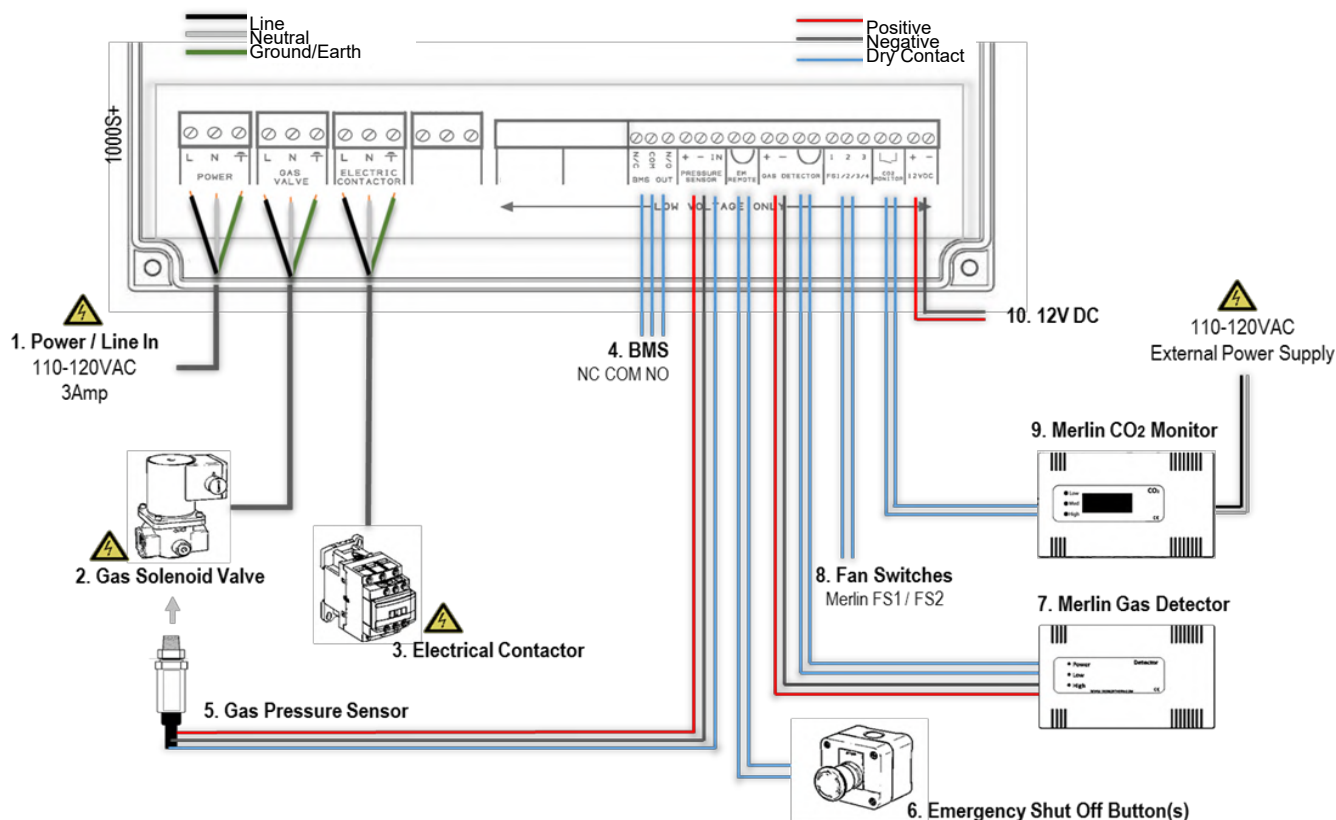
The CGS Merlin pressure transducer is used with the CGS range of gas proving systems. This pressure transducer checks the gas pipe work for leaks every time the system is turned on.

In the event of a gas leak or a open appliance during the testing sequence, the transmitter will send a signal to the Merlin unit to isolate the gas solenoid valve.

## Product Specifications

Model:	Merlin 1000S+
Visual Indication	LED
Mains Electrical Power Input	110-120VAC
Utility Output 1	110-120VAC
Utility Output 2	110-120VAC
Current Consumption	12W max (50mA) @ 120VAC
Internal Fuse	3.15A
Utility Outputs 1 & 2	3.15A
Operating Temperature	32 - 104°F 0-95%RH Non-Condensing
Audible Alarm Buzzer dB	65 dB (300mm distance in quiet conditions)
Pressure Sensor Operating Pressure	0-1.45psi
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 1000S+ Wiring Example



Find out more  
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