



Key Features

- Automatic individual control of three utilities.
- Clear LED status display.
- Built-in connectivity to existing BAS and fire alarms
- Additional external gas detection sensors available.
- Key lock for authorization control.
- Panel Mounted EM Stop Button.
- Clearly Labelled Printed Circuit Board.

Overview

The Merlin 1000SW+i utility control panel gives the user complete automatic individual control over three utilities within the room whilst providing a convenient connection centre for additional systems. The Merlin 1000SW+i provides a keyed authority switch for all the utilities. The emergency shut off button is shrouded to ensure no accidental shutdowns occur. All the Merlin utility controls come with clearly labelled printed circuit boards to ensure easy installation.

Additional gas detection sensors can be wired to the unit for extra safety. Built-in connectivity to existing BAS systems and inputs for existing fire alarms make the unit perfect for renovation projects as well as new build. Dip switches on the reverse side of the facia panel allow for on-site adjustments of various parameters including, how the unit communicates with the BAS system and the time-out function. The included time-out function can be adjusted between 2 hours, 4 hours and 8 hours or disabled. Certain utilities can be selected to remain on in the event of an emergency shutdown.

Application

- K-12 and Higher Ed Science Classrooms.
- Designed to meet NSTA guidelines.
- Isolation of the utility in the event of high CO or CO2 concentrations (most commonly being isolation of gas, electric & water).
- Decorative gas powered fire pits.
- Gas BBQ's installations.
- Commercial industrial spaces.
- Automatic isolation of the utilities upon EM stop or gas detection.



Gas Safety Systems

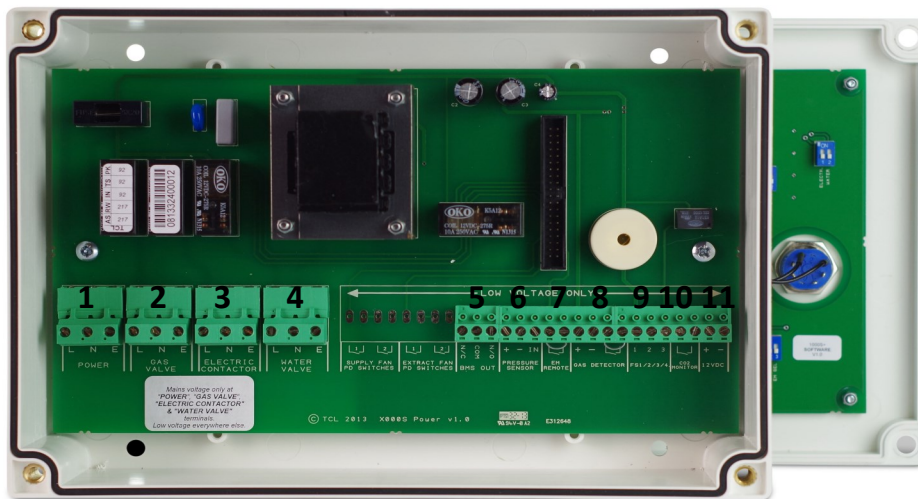
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Utility Control

Technical Specifications

Power Supply	110-120vac, 50/60HZ
Protection	Overvoltage, overcurrent, surge protection (3amp)
Enclosure	Wall mounted Fully UL certified enclosure. Flush Mount kit available.
Dimensions	W10in x H7in x D2.4in
Utility 1 Control Signal Output	110-120vac, 50/60HZ
Utility 2 Control Signal Output	110-120vac, 50/60HZ
Utility 3 Control Signal Output	110-120vac, 50/60HZ
BAS Output	N/C COM N/O - Max 1A @ 120vac
EM Stop Input	Volt Free*
Fan Switch Output	Volt Free*
Sensor Power Output	24VDC
Sensor Signal Input	Volt Free
CO ² Monitor Signal Input	Volt Free*
Adjustable Time-out period	2 hour, 4 hour, 8 hour or disabled
Adjustable BAS Signal Output	Alarm "on" or Utility "on" / Utility "off"

***Volt Free. Do Not connect any device which generates a separate source of voltage on this circuit. Any voltage applied to these connections will damage the microcontroller.**



1. Mains Supply Input, Single phase 110-120VAC 50/60HZ
2. Utility 1 Power Output, Single phase 110-120VAC 50/60HZ
3. Utility 2 Power Output, Single phase 110-120VAC 50/60HZ
4. Utility 3 Power Output, Single phase 110-120VAC 50/60HZ
5. BAS Output Contacts. Common, Normally Closed and Normally Open.
6. Not Applicable.
7. Remote Emergency Stop Button and Fire Alarm input (wired in series) Volt Free
8. Gas Detector (Nat Gas, CO, CO², LPG or NOX) power supply and returned signal.
9. Fan Switch Output (purchased separately)
10. CO² Monitor Signal Return
11. Permanent 12VDC output when there is power at the panel. 50mA max

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