

Merlin Utility Control



Key Features

- Automatic individual control of two 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.
- Remote EPO Buttons

Overview

The Merlin 1000S+i utility control panel gives the user complete automatic control over the utilities within the room whilst providing a convenient Connection centre for additional systems. The Merlin 1000S+i provides a keyed authority switch for the utilities (most commonly being gas, electric & water). The emergency shut off button is shrouded to ensure no accidental shutdowns occur. All the Merlin utility controls come with clearly labelled PCB boards to ensure easy installation. Additional gas detection sensors can be wired to the unit for extra safety.

The Merlin range of utility controls can accept either a Natural Gas, Carbon Monoxide or LPG sensor along with an input from the Merlin CO2 monitor. 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 fascia 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.

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

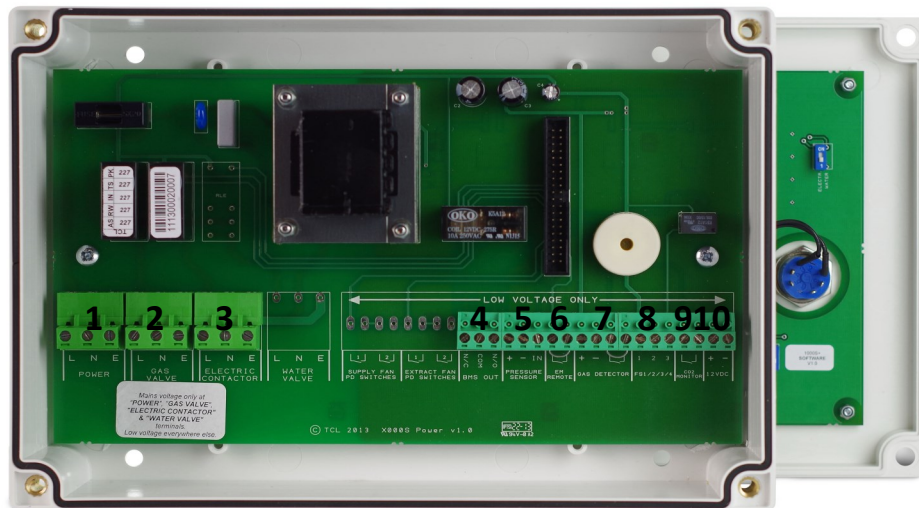
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Utility Control

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 |
| 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. BAS Output Contacts. Common, Normally Closed and Normally Open.
5. Not Applicable.
6. Remote Emergency Stop Button and Fire Alarm input (wired in series) Volt Free
7. Gas Detector (Nat Gas, CO, CO², LPG or NOX) power supply and returned signal.
8. Fan Switch Output (purchased separately).
9. CO² Monitor Signal Return
10. Permanent 12VDC output when there is power at the panel. 50mA max

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