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 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.

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.
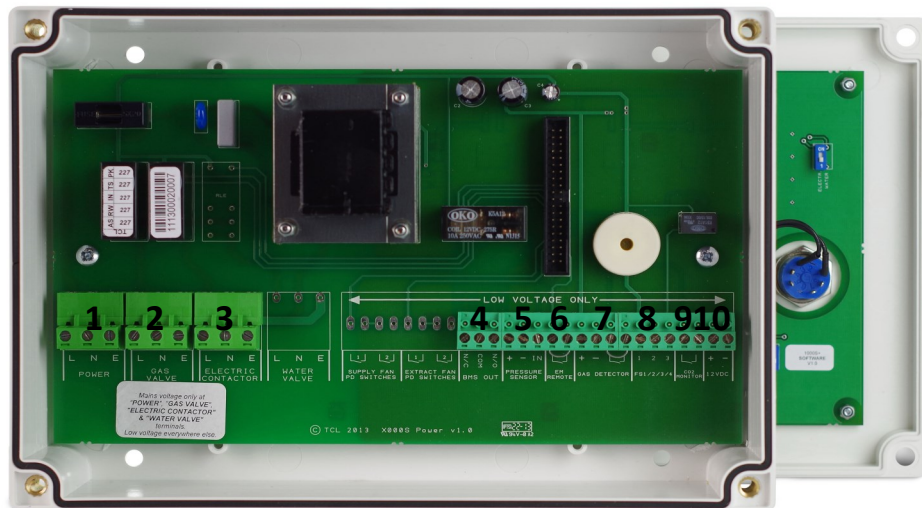
Gas Safety Systems   **Utility Control**

Merlin Utility Control

AGS
AMERICAN GAS SAFETY

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	W: 10 1/16" x H: 7 1/16" x D: 3 1/16"
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 Sensor Signal Input	24VDC 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. Disabled on this system.
6. Remote Emergency Stop Button and Fire Alarm input (wired in series) Volt Free
7. Gas Detector (Nat Gas, CO, CO_2, LPG or NOX) power supply and returned signal.
8. Fan Switch Output (purchased separately).
9. CO_2 Monitor Signal Return
10. Permanent 12VDC output when there is power at the panel. 50mA max