Model: AGS1000SW+ Technical Specification Sheet

Merlin Utility Control





Key Features

- Automatic individual control of three utilities
- Clear LED status display
- Gas pressure drop test and continuous supply pressure check via pressure transducer
- Built-in connectivity to existing BAS and fire alarms
- Additional external gas detection sensors available
- Key lock for authorization control
- Panel mounted panic button

Overview

The Merlin 1000SW+ utility control panel gives the user complete automatic control over the gas, electricity & water within the room. Utilizing a solenoid valve and a pressure transducer the Merlin 1000SW+ will check for a pressure drop or leak in the downstream gas line before allowing the gas to be supplied. Once gas has been supplied, the unit will constantly check the incoming gas supply pressure to ensure that a naked flame cannot be extinguished by a weak draft. The key lock ensures that only authorized personnel can operate the utilities. The emergency panic 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. 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 onsite adjustments of various parameters including, the gas fill and prove time, how the unit communicates with the BAS system and the time-out function. 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 gas supply in the event of high CO or CO2 concentrations.
- Decorative gas powered fire pits.
- Gas BBQ's installations.
- Commercial industrial spaces.
- Automatic isolation of the gas supply upon EM stop or gas detection.

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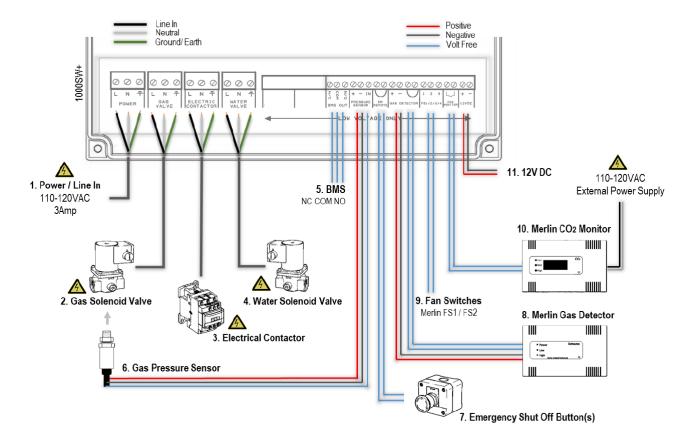
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Technical Specifications

| 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 |
| 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 |
| Gas Pressure Transducer Power Output | 12VDC |
| Gas Pressure Transducer Signal Input | 0-5VDC |
| 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 Gas "on" / Gas "off" |
| Adjustable Gas Fill Time | 5 seconds or 10 seconds |
| Adjustable Prove Time | 30 seconds or 60 seconds |

Wiring Example



Gas Safety Systems

Utility Control