

# Power Purge V

## Automated Gas Supply Controller System

### Product Datasheet

#### Features & Benefits:

- PLC-based controller and state-of-the-art Power Purge V software for reliability
- 10.4" TFT/LCD touch-screen HMI
- Multiple communication protocols available for communication with SCADA systems
- User-configurable parameters for alarms and procedures
- User-configured multi-level pass code restricts access
- Intuitive screens facilitate operation
- For inert, corrosive or flammable gas room applications
- Life safety alarm monitoring
- Semi S2000 compliance



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The Power Purge V controller is a state-of-the-art system designed for continuous monitoring of safe delivery and purging of UHP process gas systems. The Power Purge V provides the operator with intuitive, easy-to-use touch-screens and on-screen prompts to simplify the operator interaction with the machine. The graphical interface allows an operator to quickly determine the status of the tool with a glance at the screen. The panel buttons and on-screen menus offer easy access to any of the controller screens.

The Panel Purge V controller provides extensive configuration abilities to the user. The multilevel pass code limits authorized individuals to accessing protected functions, such as the configuration screens. The configuration screens allow the user to configure all aspects of the tool, including alarm inputs and responses, set points, timers, purge cycles, and auxiliary inputs and alarms. The system includes various purge routines for system purges and cylinder change-out in manual mode. The fully configurable nature of the controller makes it possible to configure the system to match a wide range of applications and requirements, including BSGS, gas racks, blending systems and bubbler systems.

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#### Software Features

- Programmed leak checks of process panels and pigtailed ensure system leak integrity at all times
- Valve operational checks ensure process gas valves open and close properly
- Cycle purges based on system pressure change and timed cycles
- Timeout feature ensures security, preventing unauthorized use of high-level routines if cabinet is left unattended
- Multilevel security codes provide additional protection
- Additional functions:
  - Smart vent, auto-flush, auto-relief, auto-zero for scale and pressure transmitter

#### Touch-screen Display

- 10.4" full-color display for high visibility
- Provides a graphical display of the entire panel
- Shows valve status during normal operation, purging and manual modes

#### Auto Changeover

- Can be configured to automatically switch from a used cylinder of process gas to a full one without requiring operator intervention
- Reduces tool downtime and prevents interruption to process cycle

#### Customization

- All programs and set points can be programmed for user's specific needs
- User-selectable purge routines for cabinet purging, maintenance and startup
- Optional scale programmed with the tare weight for automatic low cylinder weight detection
- Communication options: TCP/IP Ethernet, TCP/IP DF1, Modbus RTU, RS-485, RS 232, Profibus, 2 user output relays, 2 user life safety input relays, 5 user life safety replay outputs
- Additional features: intrinsically safe power supply to all cabinet sensors for flammable applications, built in z-purge for all non-inert applications, bulk head user hookup connections for utilities

