

Universal Gas Blower Control

Our NEW Universal Gas Blower Control (UGB) offers combustion engineers an alternative solution to speed control our EC gas blowers for staged or modulating premix combustion systems. The UGB control was developed to offer control engineers the opportunity to use an analog control signal to speed control an EC premix gas blower that normally requires a DC pulse width modulation signal.

The UGB Control is offered in entry and mid level platforms with the following standard features:

- **Voltage Input** – 24 volt AC
- **Frequency Input** – 50 and 60 Hz
- **Operation Modes** – Full modulation and Staged (S1, S2, S3, S4)
- **Signal Input** – 4-20 mA, 0-5VDC, 0-10VDC, 10-0VDC or 24VAC (S1- S4)
- **Signal Output** – 24 volt DC, 4K Hz, PWM
- **Speed Range** – Modulation (12.5% - 100%)
Staged - S1 (25% PWM - Fixed)
S2 (12.5% - 50% PMW)
S3 (75% PWM - Fixed)
S4 (62.5% - 100% PWM)
- **Slope (Modulation) & Speed (Staged) Adjustments** –
(2) 16 position rotary switch
- **Soft Start** – 50% PWM (default) during ignition and proof of flame sequences
- **Packaging** – UGB Control board mounts to standard 4-11/16” sq. galvanized steel junction box cover.

Optional features include:

- **Voltage Input** – 115 volt AC
- **Signal Input** – Local and Remote
- **Tachometer Input** – Speed Detection
- **Alarm** – Indicator light or audible alarm
- **Diagnostics** – (7) multi-colored LED lights
- **Output Adjustment** – PC serial port

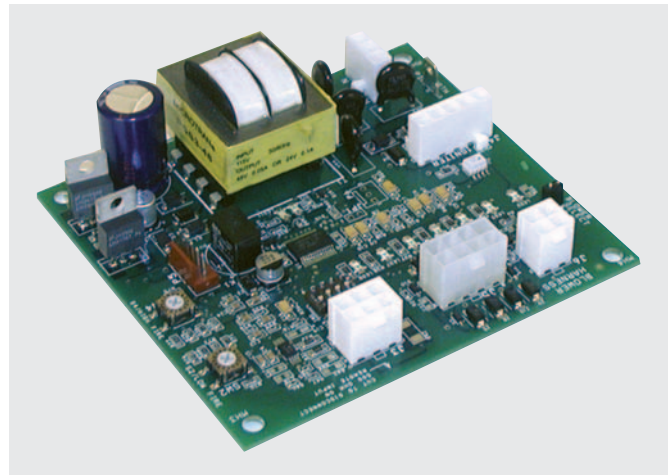


Figure 1
Universal Gas Blower Control (115V Model)

Universal Gas Blower Control

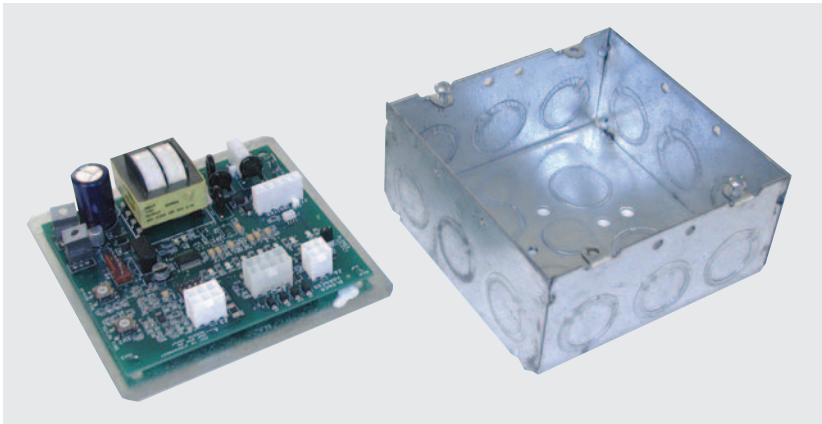


Figure 2
UGB Control Mounted on Junction Box Cover

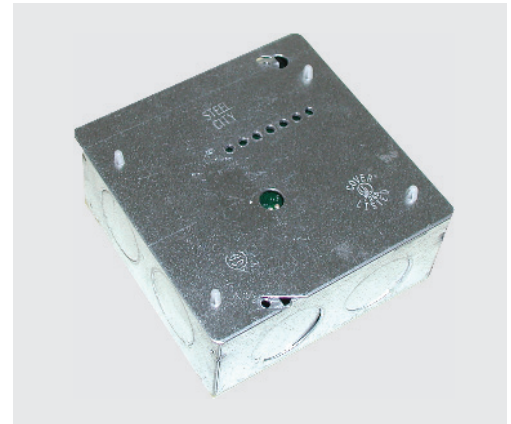


Figure 3
UGB Control Mounted in Junction Box
with holes to expose LED Diagnostic Lights

Specifications:

- **Temperature** – (-40) C to (+70) C
- **Humidity** – 10% to 93% (non-condensing)
- **Connections** – Molex Mini-Fit Jr., ¼" male spade terminal
- **Size** – 4.3 in. x 3.9 in.
- **Compliance** – FCC, part 15 conducted and radiated emissions, class B limits

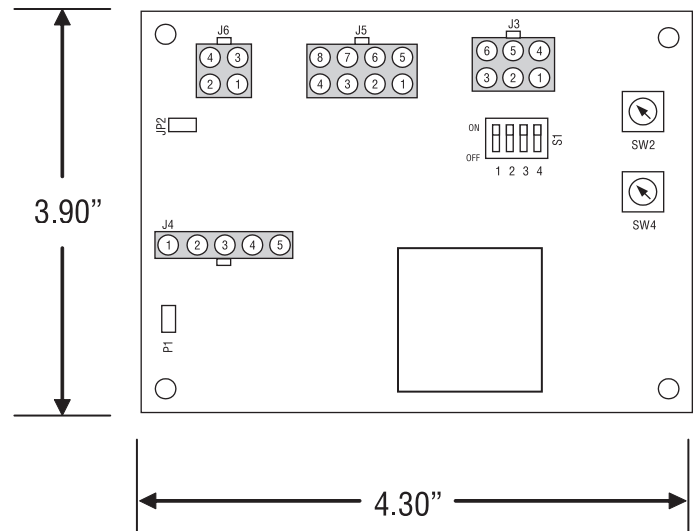


Figure 4
Universal Gas Blower Control Layout