



Low cost, form, fit and functional replacement ignition control

Features

- **Direct Spark Ignition (DSI) control board**
- **Microprocessor-based**
- **Controls combustion, blower and indoor motors; spark ignitor; and the gas valve**
- **Monitors timing, trial for ignition, flame sensing and lockout**
- **100% lockout safety feature**
- **Compatible with LP or Natural Gas**
- **Status LED for fault codes to aid in troubleshooting**



Specifications

- **Control voltage:** 24 VAC (18-30 VAC), 60 Hz
- **Line voltage:** 208/230 VAC, 60 Hz
- **Power consumption:** 0.3A plus gas valve current at 24 VAC
- **Operating Temperature:** -40°C (-40°F) to 75°C (176°F)

Timing

- **Pre-purge:** 45 seconds
- **Trial for Ignition:** 5+2 seconds
- **Retry period:** Every 20 seconds for 15 minutes
- **Lockout:** manual reset
- **Post-purge:** 45 seconds

LED indicators

- **Red LED:** Steady ON- normal operation
Flashing - fault codes

Inputs

- **Power:** RT and C
- **Thermostat interface:** R, W and G
- **Safety switches:** RS, LS, and CS
- **Combustion motor Hall Effect sensor**
- **Flame Sensing**

Outputs

- **Spark**
- **Gas Valve:** GV
- **Combustion motor:** CM
- **Blower motor:** BM
- **Indoor fan motor:** IFO

Replaces

Carrier: LH33WP003A