



FENWAL CONTROLS

GAS BURNER CONTROL

DUAL SPARK 35-62 CONTROL

24VAC • Direct Spark Ignition • Advanced Communications • Harmonized

The 35-62 Series control is designed for appliances that require dual burner configurations - at a cost competitive to a single burner controller. With a 25% smaller footprint than the previous generation, these controls fit into your appliance easier and offer additional versatility with flame sense capabilities for local as well as remote applications.

These 24VAC controls provide high energy 18KV spark output for reliable gas ignition. Supporting and troubleshooting your appliance is streamlined through the available Universal Asynchronous Receiver/Transmitter (UART) communications, providing real time control status data. The redesigned 35-62 meets the latest ANSI Z21.20-2014 harmonized ignition standard well in advance of the October 2023 deadline.

The advanced microprocessor design combined with surface mount technology and high-capacity relays provides precise, repeatable operation and extended product life. Diagnostic and flame sense LEDs provide immediate visible status when supporting your appliance.

Additional options include:

- Single/three try ignition
- Automatic reset
- Intelligent alarm out
- Standoffs/enclosure
- Fan control board
- Wiring harness



35-62 Series – Product Specifications:

Parameters	Specifications
Input Power	18 – 30VAC at 50/60HZ AC
Input Current	300mA @ 24VAC with gas valve relay energized (control only)
Gas Valve	2.0A max (continuous) 4.0A (Inrush)
Alarm	.5A @ 24VAC
Operating Temperature	-40°F to +176°F (-40°C to +80°C)
Flame Sensitivity	.7 µA minimum
Flame Failure Response Rate	0.8 seconds maximum
Flame Detector Self-check Rate	50/60 times per second
Gas Types	Natural, LP, or manufactured
Spark Rate	25/30 per second
Max. Size (LxWxH) with enclosure	5.7 x 4.0 x 1.6 inches (14.45 x 10.15 x 4.1 cm)
Moisture Resistance	Conformal coated to operate noncondensing to 95% R.H. Module should not be exposed to water
Ingress Protection	Not rated, protection provided by appliance in which it is installed
Tries for Ignition	One or three try versions available
Trial for Ignition Periods	4, 7, 10, 15 seconds available
Pre-purge and Inter-purge Timings	0, 15, 30 seconds, Without pre-purge, there is a 2 second start-up delay

Product Approvals (PENDING):



Design Certified to ANSI Z21.20-2014
CAN/CSA C22.2 No. 60730-2-5-14 and
UL 60730-2-5

RoHS

RoHS Compliant



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Sell Sheet SS FC-004

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