



# FENWAL CONTROLS

## GAS BURNER CONTROL

### SPARK IGNITION 35-20 SERIES

230VAC • Direct Spark Ignition • Intermittent Pilot • DSI with Inducer Blower  
Advanced Communications • Harmonized

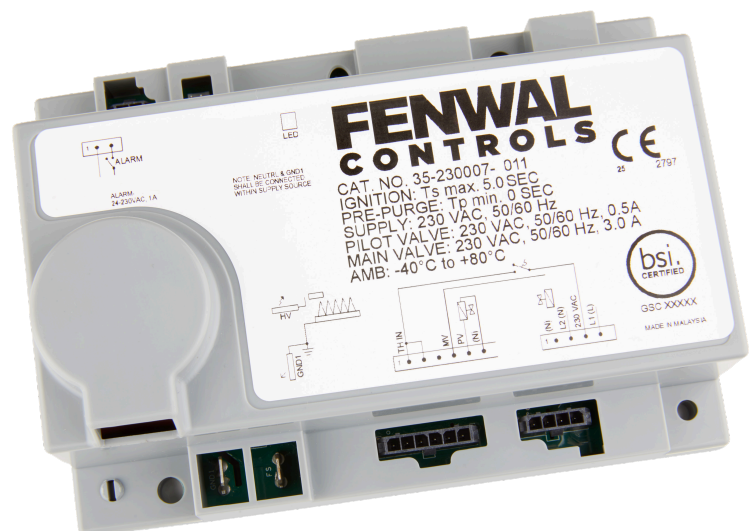
The 35-2X Series is a brand new gas ignition control release intended for the EU & APAC markets. These new controls have all the features you expect as well as enhanced connectivity and troubleshooting capabilities utilizing our UART communications interface.

The 35-20, 35-21 with inducer blower and 35-23 with intermittent pilot Series are 24VAC controls that provide high energy spark output for reliable gas ignition in a range of configurations including HVAC, Commercial Cooking & Laundry and niche applications where natural gas. Supporting and troubleshooting your appliance is enhanced through the Universal Asynchronous Receiver/Transmitter (UART) communications, providing real time control status data to your appliances.

The new 35-2X Series meets the newest CE EN298:2022 as well as BSI Certified EN 298:2022 & AS 4625-2008 which provides global certification.

#### Additional Options Include:

- Automatic Reset
- Intelligent Alarm Out
- Standoffs/enclosure
- Wiring Harness
- IP20 (Cover)
- Market-Leading Temperature Range (extreme/rugged environments)



## 35-60 Series – Product Specifications:

Parameters	Specifications
Input Power	187 – 264V at 50/60HZ
Line Voltage	187 to 264V at 50/60HZ (L1& IND contacts only)
Input Current	0.25A maximum @ 230VAC 50Hz, 25°C
Gas Valve	1.0A, 230VAC, LRA, 0.6pf 0.5A, 230VAC, FLA
Alarm	Dry Contact Programmable 1A at 24VAC - 230VAC/30VDC
Operating Temperature	-40°F to +185°F (-40°C to +80°C)
Flame Sensitivity	0.7 microA
Flame Failure Response Rate	0.8 seconds maximum
Flame Detector Self-check Rate	Once per second minimum
Gas Types	Natural, LP, or manufactured
Spark Rate	25 Sparks per second
Max. Size (L x W x H) with enclosure 5.7 x 4.0 x 1.6 inches (14.45 x 10.15 x 4.1 cm)	5.69 x 3.94 x 1.87 inches (14.45 x 10.101 x 4.75 cm)
Moisture Resistance	Conformal coated to operate noncondensing to 95% R.H. Module should not be exposed to water
Ingress Protection	IP-20 (with Cover)
Tries for Ignition	One or three try versions available
Trial for Ignition Periods	4, 7, 10, 15 seconds available (35-23 5 second max)
Pre-purge and Inter-purge Timings	0, 15 or 30 seconds available
Post Purge Timing	0, 30 or 60 seconds available (350-21 only)

### Product Approvals (PENDING):



Australian Gas Safety certification to  
EN 298:2022 & AS 4625-2008