GeniSys®

Advanced Burner Control

Beckett PARTS & ACCESSORIES

Product Sheet - Model 7586

Product Description

The Beckett GeniSys® Intermittent Pilot Gas Ignition Control is a 24 Vac primary safety control designed for use in residential and light commercial gas heating applications which use an intermittent pilot for lighting the main burner. Applications may include boilers, furnaces, water heaters, space heating and commercial cooking equipment. The GeniSys® gas ignition control includes an integrated spark ignition coil for lighting the pilot and uses flame rectification principles to reliably prove the presence of the pilot flame.

Features & Benefits

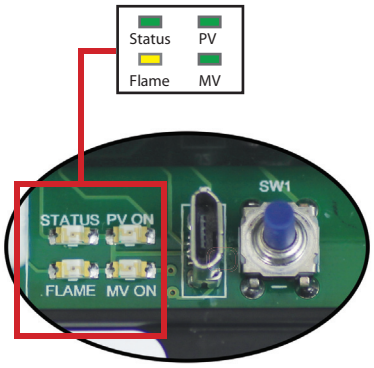
- Designed for use in Single Rod and Dual Rod applications
- 4 LEDs for improved diagnostics
- Continuous retry standard - single or multiple trials for ignition optional
- Convenient mounting using screws or fasteners
- Selectable ignition timing 10-90 seconds
- Selectable pre-purge timing 1-240 seconds
- Selectable relight or recycle operation
- The microprocessor is checked for proper operation before each cycle
- Designed for use with gas valve connector plug
- Available model (7586C) with manual reset button and non-volatile lockout
- Communication Port links new alarm module and future products

4 LEDs Provide Easy Diagnostics

For faster troubleshooting and service calls

Service personnel can quickly determine control status

Quick Status Check



Status: Fast flash, Flame: Off	Fast flash, lockout
Status: Off, Flame: Off	No call for heat or no power to control
Status: Slow flash, Flame: Off	Slow flash, Pre-purge or Interpurge period
Status: On, Flame: Off	Trial for Ignition
Status: On, Flame: On	Flame proven
Status: On, Flame: On	Run Mode, strong flame signal
Status: On, Flame: Slow flash	Run Mode, Flame LED flashing, low flame signal
Status: Fast flash, Flame: Fast flash	Flashing Flame and Status LEDs, Flame out of sequence
Status: Fast flash, PV: Fast flash, Flame: Off	Control error, replace control

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Available Models

Beckett GeniSys® Control Part No.	Lockout Time	Single or Dual Rod	Vent Damper Plug	Multiple Lockout Sequences	Reset Button and Non-volatile Lockout
7586T0001	10-90 sec	Yes	Yes	Yes	No
7586C0001	10 sec max	Yes	Yes	No	Yes

Electrical Ratings

Inputs

Voltage: 24 Vac nominal
Current Draw: 0.2 Amps plus gas valve (MV+PV)
Frequency: 50/60 Hz

Outputs

Pilot Valve Rating: 2.0 Amps (resistive)
Main Valve Rating: 5.0 Amps (resistive)
Note: With no damper installed, max valve current draw = 1.75 Amps

Timings

Ignition Timing: 10-90 seconds
Pre-purge Timing: 1-240 seconds
Inter-purge Timing: 30-300 seconds

Additional Ratings

Minimum Flame Current: 1 µA
Flame Failure Response Time: 0.8 seconds
Thermostat Voltage: 24 Vac

Environmental Ratings

Storage & Operating Ambient Temp.: -40°F to +175°F (-40°C to +79.4°C)
Moisture: 5 to 95% RH, non-condensing

Approvals

ETL listing per ANSI Z21.20, and CSA C22.2 No. 199

The standard 7586 is designed for use on applications below 400,000 BTUs. For applications above 400,000 BTUs, contact Beckett's Engineering Group.

Available Lockout Sequences

T Models - Lockout Sequences

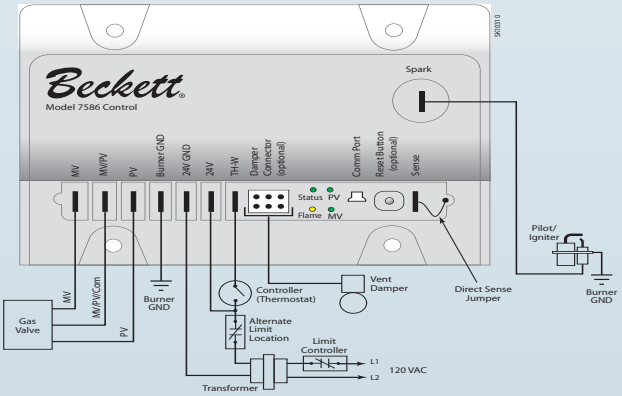
- Continuous retry - 5 minute waiting period (standard)
- Lockout after single trial for ignition (volatile lockout)
- Lockout with retrial every 1 hour (volatile lockout)
- Lockout after 3 trials for ignition (volatile lockout)

C Models - Lockout Sequence

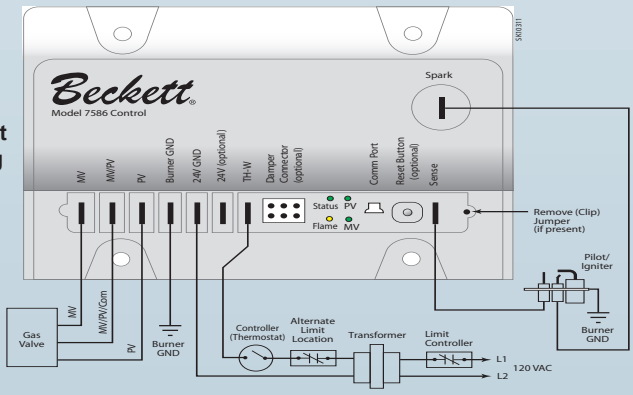
- Shutdown after flame failure or failure to light (no relight attempt)
- 5 minute minimum waiting time
- 1 retry attempt allowed, then non-volatile lockout. Lockout must be manually reset using reset button

All replacement T models and C models can be wired with or without a damper. A damper connector is included for use with existing damper wiring plugs. A damper plug jumper is included for use if no damper is connected to the ignition control.

Single Rod shown with damper wiring



Dual Rod shown without damper wiring



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