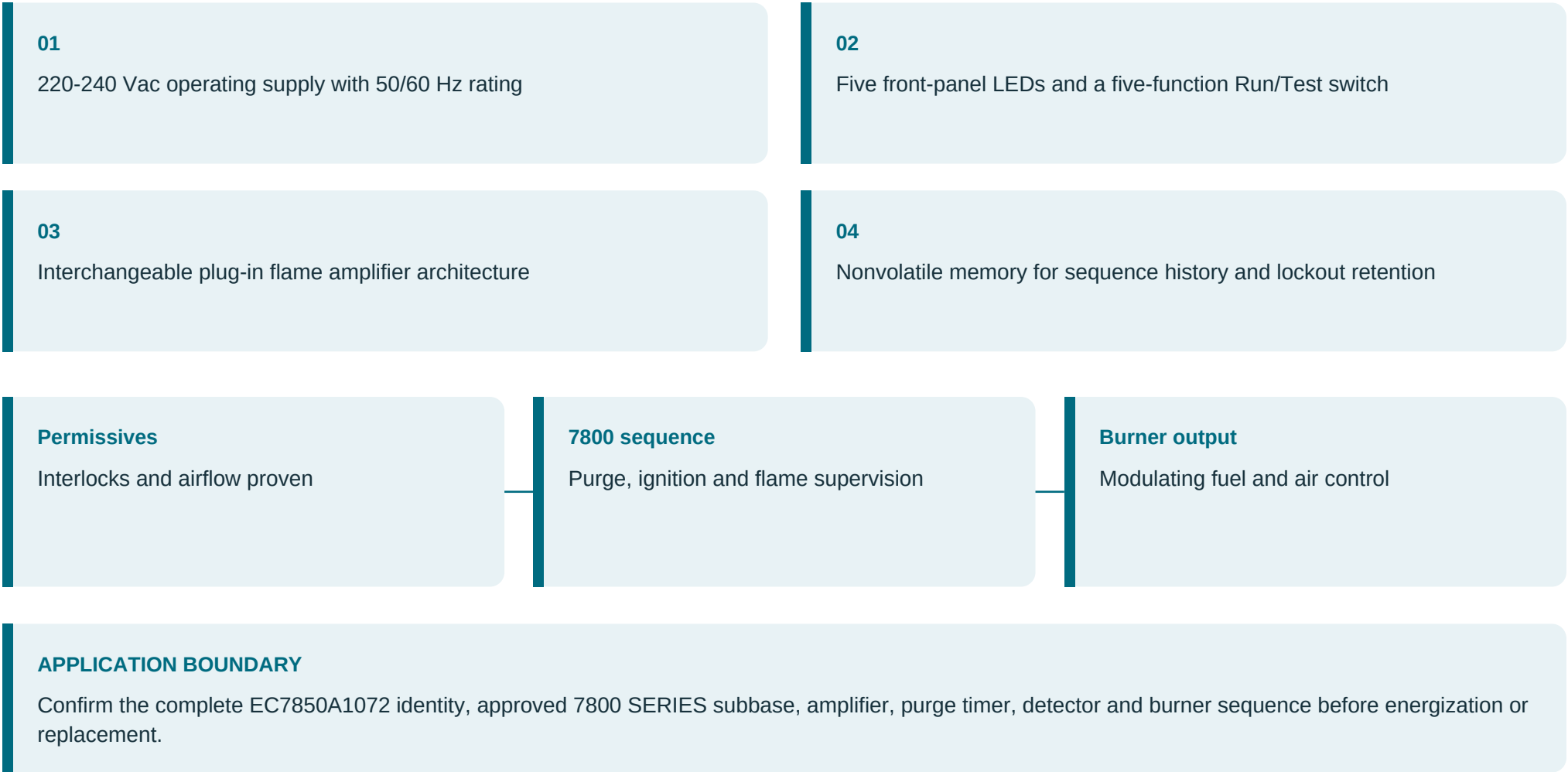


EC7850A1072

Honeywell EC7850A1072 is a 7800 SERIES microprocessor-based relay module for full-modulation single-burner gas, oil or combination-fuel applications. It provides automatic burner sequencing, flame supervision, status indication, diagnostics and troubleshooting.



EC7850A1072

Product family	Honeywell 7800 SERIES programmer control
Application	Full-modulation single-burner gas, oil or combination fuel
Supply voltage	220-240 Vac, +10/-15%
Frequency	50/60 Hz; 60 Hz +/-10%
Postpurge	2 seconds
Pilot flame period	3 or 5 seconds
Main flame period	3 or 5 seconds, or intermittent
Prepurge	Determined by the selected ST7800A purge timer

Indication	Five sequence-status LEDs
Test control	Five-function Run/Test switch
Memory	Nonvolatile sequence-history and lockout retention
Wiring subbase	Q7800A or Q7800B
Flame amplifier	R7847, R7849, R7861 or R7886 family as approved
Storage / shipping	-40 to +60 degrees C
Vibration	0.5 G environment rating

EC7850A1072

MODULATING GAS BURNER

Sequence and supervise a full-modulation gas burner using the approved external subbase, amplifier, purge timer and detector.

MODULATING OIL BURNER

Apply the documented sequence and flame-proving functions to an approved oil-burner control design.

COMBINATION-FUEL BURNER

Use the module in an approved gas/oil arrangement with the correct interlocks and flame-detection hardware.

BURNER DIAGNOSTICS

Read the five sequence LEDs and retained lockout history during controlled maintenance and acceptance testing.

STATION INTEGRATION

Match the voltage, flame amplifier, purge timer, wiring subbase and flame detector to the approved burner design. Record the selected flame-failure response time and pilot stabilization arrangement, then test the complete permissive, ignition, flame-proving, shutdown and lockout sequence before release.

EC7850A1072

What is Honeywell EC7850A1072?	It is a microprocessor-based 7800 SERIES relay module for automatic burner sequencing, flame supervision, status indication, diagnostics and troubleshooting in full-modulation burner applications.
Which supply rating is specified for EC7850A1072/U?	Honeywell lists 220-240 Vac, +10/-15%, at 50/60 Hz, with the 60 Hz tolerance stated as +/-10%.
What postpurge is built into this exact execution?	The exact EC7850A1072/U row specifies a two-second postpurge.
Which external components are required to complete the control?	The catalog lists a Q7800A/B wiring subbase, an approved R7847/R7849/R7861/R7886 flame amplifier, and an ST7800A purge timer, together with the selected compatible flame detector.
How is the prepurge time established?	The prepurge is set by the selected ST7800A purge timer rather than by changing the exact relay-module identity.
What information remains available after a power interruption?	Nonvolatile memory retains sequence history and lockout information so the last recorded state can support controlled troubleshooting after power returns.
Which pilot flame periods are supported?	Honeywell lists three- or five-second pilot flame establishment periods, while the approved amplifier and system design determine the final flame-failure response and detector arrangement.

EC7850A1072

STEP 1

Record the complete EC7850A1072 marking before disconnecting conductors.

STEP 2

Isolate burner fuel and electrical energy under the approved safe-work procedure.

STEP 3

Verify the 220-240 Vac supply and frequency before energization.

STEP 4

Confirm the Q7800 subbase wiring against the approved burner diagram.

STEP 5

Match the flame amplifier and detector to the approved flame-sensing method.

STEP 6

Confirm the ST7800A purge-timer selection and required purge duration.

STEP 7

Test permissives, ignition, flame proving, shutdown and lockout functions.

STEP 8

Record the as-left sequence, LED states and acceptance results before release.

EC7850A1072

MANUFACTURER SOURCE

Honeywell Combustion Catalog: 7800 SERIES Programmer Controls, and Honeywell Programmer Control Cross Reference, form 70-8313, exact EC7850A1072/U row

Related Honeywell catalog pages

Browse related automation products. These links do not establish interchangeability.

Honeywell 8C-TDILA1 51307141-175

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