

Honeywell TMG740-3-MOD-43-35

Burner Control Box

Honeywell TMG740-3-MOD-43-35 sequences purge, ignition, flame proving and staged fuel-valve operation for forced-draught and dual-fuel burners using the documented 43-35 programme timing.

01 43-35 burner programme timing	02 Ionisation, UV or IR flame detection	03 Air-pressure and damper-position supervision	04 Single-stage, two-stage or modulating burner control
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System position

Burner demand and safety chain	Air proving and purge sequence	Ignition and flame establishment	Fuel-valve staging and supervised run
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Evidence boundary

Only verified exact-model facts and explicitly identified family context are included. Similar codes are not treated as substitutes.

Evidence and release scope

- Exact identity: Honeywell TMG740-3-MOD-43-35
- Primary evidence: Honeywell Satronic TMG 740-3 Product Information 535e/05/03
- Supporting evidence: Honeywell Satronic TMG 740-3 Mod. 43-35 programme timing table
- Purpose: support controlled identification, preparation and acceptance without transferring sibling-model data.

Engineering domains and architecture

Supply voltage	220 / 240 V AC (-15% to +10%)
Supply frequency	50 Hz; permissible 40 to 60 Hz
Power consumption	Approximately 15 VA
Output current	4 A maximum per output terminal; 6 A total

Protection	IP44
Ambient temperature	-20 to +60 degrees C
Supervised pre-purge	32 s for Mod. 43-35
Post-purge	10 s for Mod. 43-35

Interface architecture

Flame input	Air circuit	Fuel outputs	Operator indication
Ionisation probe, UVZ 780 UV sensor or IRD 820/1020 infrared detector	Air proving switch plus monitored MIN and MAX damper positions	Pilot/start valve and staged main-valve sequence	Lockout reset lamp, programme indicator and five-stage flame signal LEDs

Engineering questions to close

- Installed assignment: confirm the physical location and functional duty against the controlled drawing.
- Interfaces: verify every connected device, termination and selector state before work.
- Energy boundary: identify all electrical, mechanical, process or stored-energy sources.
- Return-to-service boundary: agree the expected states, tests and sign-off authority in advance.

Use cases with controlled scope

Forced-draught burners Controls the documented start and running sequence for medium- to high-performance burners.	Dual-fuel burners Coordinates supervised oil/gas burner sequences within the approved wiring arrangement.	Two-stage firing Stages start, pilot and main fuel valves using the 43-35 timing programme.	Direct air heaters Supports intermittent burner operation where the installed system follows the applicable burner standard.
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INTEGRATION CHECKPOINTS

Identity Honeywell TMG740-3-MOD-43-35 is preserved in full.	Host system Rack, slot and surrounding hardware are verified.	Configuration Project, firmware and settings are recorded.	Acceptance Functional evidence is captured before release.
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System relationship

Burner demand and safety chain	Air proving and purge sequence	Ignition and flame establishment	Fuel-valve staging and supervised run
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Configuration-control record			
Nameplate record: model, suffix, revision and label condition.	As-found record: position, connections, settings and fault indication.	Source record: manufacturer document title, revision and applicable section.	As-left record: measured results, restored configuration and outstanding actions.

Decision matrix

Question	Answer
What burner duty is Honeywell TMG740-3-MOD-43-35 designed to control?	It controls intermittent forced-draught and dual-fuel oil/gas burners in single-stage, two-stage or modulating arrangements.
What supply does Honeywell TMG740-3-MOD-43-35 require?	The control box is rated for 220/240 V AC with a -15% to +10% tolerance and 50 Hz operation within a 40 to 60 Hz permissible range.
Which flame detectors can Honeywell TMG740-3-MOD-43-35 use?	The documented options are an ionisation probe, UVZ 780 ultraviolet sensor, or IRD 820/1020 infrared flicker detector.
What pre-purge timing applies to Honeywell TMG740-3-MOD-43-35?	The 43-35 programme uses 32 seconds of supervised pre-purge and 40 seconds with the air damper open.

Eight release precautions

1 Verify the complete TMG740-3-MOD-43-35 label and 220/240 V supply before installation.	2 Disconnect power before plugging in or unplugging the burner control box.	3 Do not exceed the documented 10 A rapid or 6 A slow fuse rating.	4 Match the flame-detector selector to the installed ionisation, UV or infrared detector.
5 Keep flame-detector cables within the specified length and separate from mains wiring.	6 Prove the air switch and MIN/MAX damper confirmations before permitting fuel release.	7 Do not open the burner control box; treat it as a safety device.	8 Commission with closed-hand-valve and flame-loss tests, then record lockout performance.

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Product verification and support

Apter Power verification record

Model identity	Keep the complete Honeywell model code and every suffix in purchasing, installation and acceptance records.
Verification boundary	Confirm the physical nameplate, installed position and revision-controlled project documents before field work.
Apter Power support	Use the contact details and Apter Power website links in this document for product and sourcing support.

Related Apter Power references	Scope note
Honeywell C7076A1015 UV flame detector	Portfolio reference only; verify compatibility independently.
Honeywell FC-QPP-0002 quad processor	Portfolio reference only; verify compatibility independently.
Honeywell FS-PDC-FTA24P power cable	Portfolio reference only; verify compatibility independently.

	Apter Power technical and sourcing support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com Scan for the Apter Power contact page.	Model record Honeywell TMG740-3-MOD-43-35 Burner Control Box Verify the complete nameplate before installation.
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