

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.

IDENTITY SNAPSHOT

H1 43-35 burner programme timing	H2 Ionisation, UV or IR flame detection
H3 Air-pressure and damper-position supervision	H4 Single-stage, two-stage or modulating burner control

System position

1	Burner demand and safety chain
2	Air proving and purge sequence
3	Ignition and flame establishment
4	Fuel-valve staging and supervised run

Document boundary

This dossier uses exact-model evidence and clearly identified family context. Unsupported values are intentionally left for nameplate, project-record or revision-manual verification.

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.

Architecture and interface control

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SYSTEM FLOW

1	Burner demand and safety chain
2	Air proving and purge sequence
3	Ignition and flame establishment
4	Fuel-valve staging and supervised run

Interface map

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

Engineering rule

Use the full Honeywell TMG740-3-MOD-43-35 identity in drawings, spares records and acceptance evidence. A similar family code is not proof of interchangeability.

Engineering questions to close

- Installed assignment: confirm the physical location and functional duty against the controlled drawing.
- Energy boundary: identify all electrical, mechanical, process or stored-energy sources.

- Interfaces: verify every connected device, termination and selector state before work.
- Return-to-service boundary: agree the expected states, tests and sign-off authority in advance.

Verified engineering data

Values below are limited to the reviewed exact-model or directly applicable manufacturer-family evidence.

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

CHANGE CONTROL

Record Capture the complete nameplate, revision and installed position.	Compare Check replacement hardware against project and service records.
Protect Apply the documented power-isolation and ESD procedure.	Prove Complete a model-specific functional test before release.

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.

Service logic

Use evidence in sequence; do not skip directly from a fault symptom to part substitution.

1	Capture symptoms and existing status
2	Verify power, wiring, slot and surrounding system
3	Test TMG740-3-MOD-43-35 against the exact service procedure
4	Replace only after the module is isolated as the cause
5	Commission and archive results

Model-specific 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.

Acceptance evidence to capture

- Visual acceptance: correct identity, secure mounting, intact connector or container condition.
 - Protection acceptance: alarms, interlocks and fail-state response are confirmed.
- Functional acceptance: expected sequence, status, signal or service result is demonstrated.
 - Documentation acceptance: evidence is dated, attributable and stored with the maintenance record.

Decisions and Apter Power support

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.

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.



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