

TMG-740-3-MOD-43-35

Satronic TMG 740-3 Mod. 43-35 burner control box

Burner purge, ignition, fuel-valve and flame-supervision signals

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Honeywell Satronic burner control

PART

TMG-740-3-MOD-43-35

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PRODUCT OVERVIEW

Burner purge, ignition, fuel-valve and flame-supervision signals

1

Controls forced-draught burner start sequences

2

Supports ionisation, UV or infrared flame detection

3

Provides continuous five-LED flame indication

4

Implements the Mod. 43-35 timing programme

SYSTEM COMPONENTS

TMG plug-in base

approved flame detector

air-proving switch

burner motor, ignition and fuel valves

TECHNICAL NOTE

Isolate burner power and fuel, verify the Mod. 43-35 programme, detector selector, base wiring and air-proving circuit, then repeat the complete burner safety test.

TECHNICAL DATA

PARAMETER	VALUE
Supply voltage	220/240 V AC, -15% to +10%
Supply frequency	50 Hz; permitted 40 to 60 Hz
Power consumption	Approximately 15 VA
Fuse rating	10 A rapid or 6 A slow
Maximum current per output	4 A
Maximum total current	6 A

PARAMETER	VALUE
Protection	IP44
Ambient temperature	-20 to +60 degC
Pre-purge, air damper open	40 s for Mod. 43-35
Pre-ignition time	4 s
Start-valve safety interval	3 s
Weight including base	1.1 kg

ENGINEERING NOTE

Isolate burner power and fuel, verify the Mod. 43-35 programme, detector selector, base wiring and air-proving circuit, then repeat the complete burner safety test.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330354-040-24-05	Related industrial automation product	View Bently Nevada 330354-040-24-05 page
Bently Nevada 3500-15-129486-01	Related industrial automation product	View Bently Nevada 3500-15-129486-01 page
Bently Nevada 330103-00-06-10-02-CN	Related industrial automation product	View Bently Nevada 330103-00-06-10-02-CN page
Bently Nevada 330101-30-63-15-02-CN	Related industrial automation product	View Bently Nevada 330101-30-63-15-02-CN page
Bently Nevada 26363-30	Related industrial automation product	View Bently Nevada 26363-30 page
Bently Nevada 3300-12-02-20-00	Related industrial automation product	View Bently Nevada 3300-12-02-20-00 page
Siemens A5E36717803	Related industrial automation product	View Siemens A5E36717803 page
Siemens A5E36717808	Related industrial automation product	View Siemens A5E36717808 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Forced-draught gas burner control

Controls forced-draught burner start sequences

Dual-fuel burner sequencing

Supports ionisation, UV or infrared flame detection

Modulating burner supervision

Provides continuous five-LED flame indication

Burner-control-box replacement

Implements the Mod. 43-35 timing programme

PRODUCT PRECAUTIONS

- 1 Verify the complete TMG-740-3-MOD-43-35 marking and its assigned Honeywell Satronic burner control position before work.
- 2 Place the connected forced-draught gas burner control process in the approved maintenance state.
- 3 Isolate applicable power and burner purge, ignition, fuel-valve and flame-supervision signals field energy before disconnecting conductors.
- 4 Record connector, conductor, address, firmware and software identities before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- 6 Confirm the installed TMG plug-in base and approved flame detector against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended dual-fuel burner sequencing function and retain the final test result.

ENGINEER FAQ

Q1 Does TMG-740-3-MOD-43-35 match TMG plug-in base in a Forced-draught gas burner control installation?

Verify the complete TMG-740-3-MOD-43-35 marking, the documented Honeywell Satronic burner control position and the installed TMG plug-in base before fitting the assembly.

Q3 Which Honeywell Satronic burner control records should be captured before removing TMG-740-3-MOD-43-35?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with TMG-740-3-MOD-43-35 before disconnection.

Q5 Which approved flame detector condition should be checked when TMG-740-3-MOD-43-35 reports an abnormal state?

Check the approved flame detector supply, seating and connection first, then compare channel diagnostics with the recorded TMG-740-3-MOD-43-35 baseline.

Q7 What maintenance evidence is required after TMG-740-3-MOD-43-35 is used for Modulating burner supervision?

Retain the nameplate record, corrective action, final diagnostics and a controlled modulating burner supervision functional-test result for TMG-740-3-MOD-43-35.

Q2 How should TMG-740-3-MOD-43-35 be wired when it must controls forced-draught burner start sequences?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for TMG-740-3-MOD-43-35; then continuity-test the affected path.

Q4 What controlled test confirms that TMG-740-3-MOD-43-35 can supports ionisation, uv or infrared flame detection?

Apply the approved field or simulated stimulus, observe the Honeywell Satronic burner control indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can TMG-740-3-MOD-43-35 be moved directly into Dual-fuel burner sequencing without validating burner motor, ignition and fuel valves?

No. Confirm the burner motor, ignition and fuel valves, revision, connection scheme and Honeywell Satronic burner control configuration before transferring TMG-740-3-MOD-43-35 to that duty.

Q8 How should TMG-740-3-MOD-43-35 be returned to service in Burner-control-box replacement?

Restore power under control, verify provides continuous five-led flame indication, exercise the intended signal path and release TMG-740-3-MOD-43-35 only after the Honeywell Satronic burner control remains in its approved operating state.

SOURCE Honeywell/Satronic official burner control manual | TMG 740-3; 535e/05/03

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