

INDUSTRIAL AUTOMATION PRODUCT

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

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Honeywell Satronic burner control
Part number	TMG-740-3-MOD-43-35
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL 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
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 DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	TMG plug-in base
Companion hardware	approved flame detector
Field connection	air-proving switch
Primary system function	Controls forced-draught burner start sequences
Controlled acceptance duty	Forced-draught gas burner control

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System Role and Architecture

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

FUNCTION 1
Controls forced-draught burner start sequences

FUNCTION 2
Supports ionisation, UV or infrared flame detection

FUNCTION 3
Provides continuous five-LED flame indication

FUNCTION 4
Implements the Mod. 43-35 timing programme

Matched system components

- TMG plug-in base
- approved flame detector
- air-proving switch
- burner motor, ignition and fuel valves

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	TMG plug-in base
Companion hardware	approved flame detector
Field connection	air-proving switch
Primary system function	Controls forced-draught burner start sequences
Controlled acceptance duty	Forced-draught gas burner control

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	TMG-740-3-MOD-43-35 / TMG-740-3-MOD-43-35 recorded
Physical interface	TMG plug-in base
Companion check	approved flame detector
Functional proof	Controls forced-draught burner start sequences
Application test	Forced-draught gas burner control

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GE IC693MDL741G	Related industrial automation product	View GE IC693MDL741G page
GE IC670MDL640	Related industrial automation product	View GE IC670MDL640 page
GE DS200SLCCG3AFG	Related industrial automation product	View GE DS200SLCCG3AFG page
GE F31X134EPRBEG1-FR00-0	Related industrial automation product	View GE F31X134EPRBEG1-FR00-0 page
Allen-Bradley 2711P-RC3	Related industrial automation product	View Allen-Bradley 2711P-RC3 page
Schneider Electric PC-E984-685	Related industrial automation product	View Schneider Electric PC-E984-685 page
Allen-Bradley 2711-B6C1	Related industrial automation product	View Allen-Bradley 2711-B6C1 page
ABB DSTD110A	Related industrial automation product	View ABB DSTD110A page

MANUFACTURER SOURCE RECORD

Honeywell/Satronic official burner control manual

TMG 740-3; 535e/05/03

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