

Honeywell RM7800 Relay Modules from DtiCorp.com

Honeywell RM7800E, G, L, M Relay Modules: Microprocessor-based integrated burner control for automatically fired gas, oil, coal or combination fuel single burner applications. Provides safety, functional capability and features beyond conventional controls.

February 2, 2010 (FPRC) -- Fort Lauderdale, FL - Popular Honeywell online retailer DtiCorp.com (<http://www.DtiCorp.com>) is introducing the new Honeywell RM7800 Microprocessor Relay Modules. The Honeywell RM7800 is a microprocessor based integrated burner control for automatically fired gas, oil or combination fuel single burner applications. The RM7800 system consists of a Relay Module and Keyboard Display Module, Subbase, Amplifier, and Purge Card. Options include Personal Computer Interface, DATA CONTROLBUS MODULE™, Remote Display Mounting, First-Out Expanded Annunciator and Combustion System Manager™ Software. The RM7800 is programmed to provide a level of safety, functional capability and features beyond the capacity of conventional controls. Functions provided by the RM7800 include automatic burner sequencing, flame supervision, system status indication, system or self-diagnostics and troubleshooting.

FEATURES

- Safety features:
 - Interlock check.
 - Closed loop logic test.
 - Dynamic AMPLI-CHECK™.
 - Dynamic input check.
 - Dynamic safety relay test.
 - Dynamic self-check logic.
 - Expanded safe-start check.
 - High Fire Purge Switch test.
 - Internal hardware status monitoring.
 - Low Fire Start Switch test.
 - Tamper resistant timing and logic.
- Access for external electrical voltage checks.
- Application flexibility.
- Provides 0.8 to 3.0 second Flame Failure Response Time (FFRT), depending on amplifier selected.
- Communication interface capability.
- Dependable, long-term operation provided by microcomputer technology.
- First-out annunciation and system diagnostics provided by 2 row by 20 column Vacuum Fluorescent Display (VFD) located on the Keyboard Display Module.
- First-out expanded annunciation with 26 Light Emitting Diodes (LEDs) for limits and interlocks (optional).
- Five sequence information LEDs
- Five function Run/Test Switch.
- Interchangeable plug-in flame amplifiers.

- Local or remote annunciation of operation and fault information (optional).
- Nonvolatile memory for retaining history files and sequencing status after loss of power.
- Remote reset (optional).
- Report generation (optional).
- Burner controller data:
 - Sequence status.
 - Sequence time.
 - Hold status.
 - Lockout/alarm status.
 - Flame signal strength.
 - Expanded annunciator status.
 - Total cycles of operation.
 - Total hours of operation.
 - Fault history of six most recent faults:
 - Cycles of operation at time of fault.
 - Expanded annunciator data at time of fault.
 - Fault message and code.
 - Hours of operation at time of fault.
 - Sequence status at time of fault.
 - Sequence time at time of fault.
 - Diagnostic information:
 - Device type.
 - Flame amplifier type.
 - Flame failure response time.
 - Manufacturing code.
 - On/Off status of all digital inputs and outputs.
 - Selected prepurge time.
 - Software revision and version of RM7800 and Keyboard Display Module.
 - Status of configuration jumpers.
 - Status of Run/Test Switch.

SPECIFICATIONS

Electrical Ratings:

Voltage and Frequency: 120 Vac (+10/-15%), 50 or 60 Hz (+/- 10%)⁴.

Keyboard Display Module: 13 Vdc peak full wave rectified (+20/-15%).

Power Dissipation:

RM7800: 10 Watts maximum.

Display Module: 3 Watts maximum.

Maximum Total Connected Load: 2000 VA.

Fusing: Total Connected Load: 20A maximum, type FRN or equivalent.

Environmental Ratings:

Ambient Temperature:

Operating: -40°F to 140°F (-40°C to 60°C).

Storage: -40°F to 150°F (-40°C to 66°C).

Humidity: 85% RH continuous, noncondensing.

Vibration: 0.5G environment.

Weight:

RM7800: 1 pound 13 ounces, unpacked.

Keyboard Display Module: 4 ounces, unpacked.

Approval Bodies:

Underwriters Laboratories Inc. listed, File No. MP268,
Guide No. MCCZ.

Canadian Standards Association certified, LR9S329-3.

Factory Mutual approved, Report No. J.I.1V9A0.AF.

IRI acceptable.

Federal Communications Commission, Part 15,

Class B—Emissions.

Mounting: Q7800A for panel mount or Q7800B for wall
or burner mount.

Required Components:

Plug-in Flame Signal Amplifier, see Table 2.

ST7800A Plug-in Purge Timer Cards: selectable models: two seconds to 30 minutes.

Q7800A or Q7800B Wiring Subbase.

About Us: DtiCorp.Com (<http://www.DtiCorp.com>) carries more than 35,000 HVAC products, including industrial, commercial and residential parts and equipment from Honeywell, Johnson Contols, Robertshaw, Jandy, Grundfos, Armstrong and more. Our online catalog is easy to navigate and search, and all products have a picture and a description. If a customer has any questions about a product, they can call 800-757-5999 and speak with one of our product experts. Our mission is to offer the best prices anywhere to our customers.

Julian Arhire

Manager DtiCorp.com

Phone: 954.298.2515

Fax: 954.206.0767

Web: <http://www.DtiCorp.com>

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Contact Information

For more information contact Julian Arhire of DtiCorp.com (<http://dticorp.com>)

954.298.2515

Keywords

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