UNIVERSAL TOUCHSCREEN THERMOSTATS

400-Series

UHC-TST412MDMS

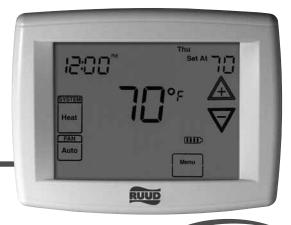
Programmable • Modulating/2 Cool • Gas/Oil/Electric, Heat Pump • Dual Fuel Capable • Hardwired

The Contour of Comfort

Ruud has set a new industry benchmark for Home Comfort with the 400-Series blue touchscreen thermostat, specially designed to work with Ruud *Ultra Series®* modulating gas furnaces. Plus, it's designed to be easy-to-view, easy-to-understand and easy-to-operate with simple on-screen programming.

Features & Benefits

- Bright, 12 sq. inch touchscreen display
- Keypad lockout option
- Hardwired
- Easy, menu-driven programming
- Audio prompting to ensure program change confirmation
- Intuitive red/blue temperature keys
- Call for service prompt
- · Humidification and dehumidification control





Warranty

5 years from date of purchase (contact the Ruud Parts Distribution Center for more information).

Dimensions

5.9"W [150 mm] x 4.6"H [117 mm] x 1.2"D [30 mm]

Thermal Specifications

Setpoint Temperature Range: 45° to 99°F (7° to 32°C)

Rated Differential: Heat 0.6°F; Cool 1.2°F

Operating Ambient Temperature: 32° to 105°F (0° to 41°C)

Operating Humidity Range: 90% non-condensing maximum

Shipping Temperature Range: -4° to 150°F (-20° to 65°C)

Electrical Specifications

Rating

Battery Power: mV to 30 VAC, NEC Class II, 50/60 Hz or D.C.

Input-Hardwire: 20 to 30 VAC

1.0 Amp (load per terminal)

1.5 Amps maximum load (all terminals combined)

Standard Systems

Single-stage gas, oil, electric

Single-stage heat pump

Multi-Stage gas, oil, electric

Multi-Stage heat pump

Programming

Universal – installer selectable system applications

Universal – choice of 7 day, 5/1/1 day programmable or non-programmable (installer selectable)

4 times and 4 temperature settings per program (2 setbacks) heat and cool, or selectable - 2 time and 2 temperature settings (1 setback)

Energy savings up to 33%

Patented pre-programmed schedule simplifies time and temperature programming

Display

Large 12-square-inch touchscreen display - largest in the industry

Blue, lighted display for easier low-light viewing

Larger, easy-to-read character size

Extra-large touch keys for easy operation Clean, uncluttered touchscreen display provides easier navigation

Performance

Selectable Energy Management Recovery Meets ENERGY STAR® specifications

YEAR

Meets California Building Code, Title 24

Fast (FA) or slow (SL) heating cycle anticipation

Easy-to-wire terminal block

Compressor lockout protection

Millivolt compatible

Electric heat option

Comfort & Convenience

Humidification and dehumidification control Dehumidification Rh range 40-90% Humidification Rh range 5-50%

Intuitive menu-driven set-up, programming and operation, with audio prompt to confirm touchscreen entries Permanent program retention during

power loss

Indefinite setpoint Hold or 4-hour temporary temperature override

Temporary temperature override - can be set from 15 minutes for Temporary adjustments up to 7 days for Vacation override

Auto heat/cool changeover option – automatically switches between heating and cooling programs

Heating and cooling, heating only or cooling only configuration (installer selectable)

Setpoint temperature "limited range" capable

Enhanced (variable) touchscreen security prevents tampering

Call for Service prompt

Furnace filter change reminder

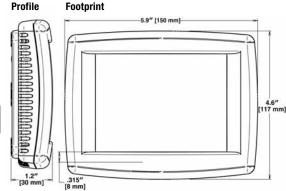
Humidifier change pad reminder

Maintains room temperature to within +/- 1°

Room temperature display can be recalibrated up to +/-4° $\,$

Terminal Designations





Thermostat System Matchups

RUUD HEAT PUMP / MODULATING FURNACE						
	SYSTEM				THERMOSTAT SOLUTIONS	
Heat	Modulating	Stages		Thermostat Model	Description	
Pump	Furnace	Heat	Cool	mermostat woder	Description	
UPNE						
UPPB	UGFD					
UPPL	UGGD	Modulating	1	UHC-TST412MDMS	Programmable Mod/GE/DF	
UPNL	UGJD					
UPPC						

RUUD HEAT PUMP 2-STAGE / MODULATING FURNACE							
	SYSTEM				THERMOSTAT SOLUTIONS		
Heat	Modulating	Stages		Theymeetet Medel	Decemention		
Pump	Furnace	Heat	Cool	Thermostat Model	Description		
	UGFD						
UPRL	UGGD	Mod	2	UHC-TST412MDMS	Programmable Mod/GE/DF		
	UGJD						

RUUD CONDENSER 1-STAGE / MODULATING FURNACE						
	SYSTEM				THERMOSTAT SOLUTIONS	
Condenser	Modulating	Stages		The war a stat Mandal	Description	
1-Stg.	Furnace	Heat	Cool	Thermostat Model	Description	
UAND UAPC UAPL UARA UANL UAKB	UGFD UGGD UGJD	Modulating	1	UHC-TST412MDMS	Programmable Mod/GE/DF	

RUUD CONDENSER 2-STAGE / MODULATING FURNACE						
	SYSTEM				THERMOSTAT SOLUTIONS	
Condenser	Modulating	Stages		Thermostat Model	Decemention	
2-Stg.	Furnace	Heat	Cool	Thermostat woder	Description	
UARL UASL	UGFD UGGD UGJD	Modulating	2	UHC-TST412MDMS	Programmable Mod/GE/DF	