



RDG100 / RDG110
RDG140 / RDG160



RDG100T

Room thermostats with LCD for wall mounting

RDG1...

for fan coil unit applications

for universal applications

for use with compressors in dx type equipment

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- **RDG100...: Operating voltage AC 230 V, ON/OFF, 3-position or PWM control outputs**
 - **RDG110: Operating voltage AC 230 V, ON/OFF relay (SPDT) outputs**
 - **RDG140 / RDG160: Operating voltage AC 24 V, DC 0...10 V control outputs**
 - **Operating modes: Comfort, Energy Saving and Protection**
 - **Automatic or manual fan speed**
 - **Output for 1-speed, 3-speed or ECM fan DC 0...10 V (RDG160)**
 - **3 multifunctional inputs for keycard contact, external sensor, etc.**
 - **Automatic or manual heating / cooling changeover**
 - **Adjustable commissioning and control parameters**
 - **Minimum and maximum setpoint limitation**
 - **Backlit display**

Additional features of RDG100T:

- **Infrared remote control receiver**
- **Auto Timer mode with 8 programmable timers**

The RDG1... room thermostats are designed for use with the following types of system:

Fan coil units via ON/OFF or modulating control outputs:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 4-pipe system with electrical heater
- 2-stage heating or cooling system

Chilled / heated ceilings (or radiators) via ON/OFF or modulating control outputs:

- Chilled / heated ceiling
- Chilled / heated ceiling with electrical heater
- Chilled / heated ceiling and radiator / floor heating
- Chilled / heated ceiling, 2-stage cooling or heating

Heat pumps with dx type equipment:

- 1-stage compressor for heating or cooling
- 1-stage compressor for heating or cooling with electrical heater
- 1-stage compressor for heating or cooling and radiator / floor heating
- 1-stage compressor for heating and cooling with reversing valve
- 2-stage compressor for heating or cooling

Functions

- Room temperature control via built-in temperature sensor or external room temperature / return air temperature sensor
- Automatic or manual changeover between heating and cooling mode
- Selection of applications via DIP switches
- Selection of operating mode via operating mode button on the thermostat
- 1- or 3-speed or DC 0...10 V fan control (automatic or manual)
- Display of current room temperature or setpoint in °C and/or °F
- Minimum and maximum setpoint limitation
- Button lock (automatic or manual)
- 3 multifunctional inputs, freely selectable for:
 - Operating mode switchover contact (keycard, window contact, etc.)
 - Changeover sensor for automatic heating / cooling mode
 - External room temperature or return air temperature
 - Dewpoint sensor
 - Electrical heater enable
 - Faults
- Advanced fan control function, i.e. fan kick, fan start, selectable fan operation depending on heating / cooling mode, fan start delay in systems with ON/OFF control
- Purge function in conjunction with 2-port valve in systems with automatic heating / cooling changeover
- Reminder to clean fan filters
- Floor heating temperature limitation
- Reload factory settings for commissioning and control parameters
- 7-day time program: 8 programmable timers to switch over between Comfort and Energy Saving mode (RDG100T)
- Infrared remote control (RDG100T)