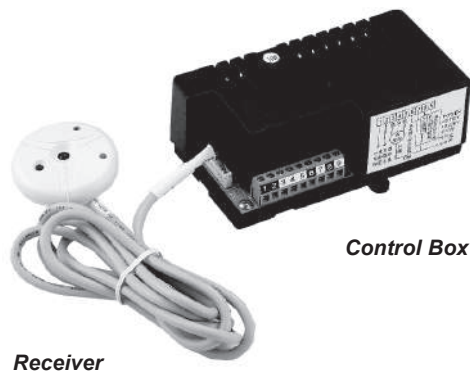


F-101 Operation and Maintenance Manual

F-101 Temperature Controller Panel Specifications

- 1.1 Dimensions : 16.5 × 5 × 1.4 cm
- 1.2 Set Temp Range : 15°C–35°C (59°F–95°F)
- 1.3 Timer Range : 1–24 hours (display hidden when set to 0 hour)
- 1.4 Infrared Effective Linear Distance : 6–8 m (varies slightly by environment)
- 1.5 Functions : → Cool (Cooling) / Hot (Heating) / Fan (Ventilation)
Cool (Cooling) / De-wet (Dehumidification) / Fan (Ventilation)
- 1.6 °C/°F Switching : Toggle via the internal circuit board (backside of remote) or
Hold both Temp +/- buttons simultaneously for 10 seconds after power-on.
- 1.7 Modes : Cooling-only / Heat-Cool / Direct Expansion (low current, high current, 25A)
- 1.8 Wire-Free Connection : Between control box and remote.

F-101 Wireless Remote Controller



Receiver & Control Box

F-101 Remote Controller Operation Guide

2.1 Initial Battery Installation (RESET State)

When batteries are installed for the first time, all LCD segments will illuminate for 5 seconds to verify display functionality.

2.1.1 Operation Mode → Cooling (Cool)

2.1.2 Set Temperature → 26°C

2.1.3 Fan Speed → Auto

2.1.4 Sleep Function → Off

2.1.5 Airflow Direction → Not supported (for chiller unit models)

2.1.6 Timer Function → Disabled (0 hour)

2.2 Operation Mode Selection

2.2.1 Press the "Mode" button to cycle through modes :

Cooling (Cool) Fan (Ventilation) Heating (Hot)

2.3 Temperature Setting (SET TEMP) :

2.3.1 In Cooling (Cool) Mode :

Press ▲/▼ to adjust temperature (range : 15°C–35°C).

2.3.2 In Hot Mode :

Press ▲/▼ to adjust temperature (15°C–35°C)

2.3.3 In Fan mode :

Temperature control is disabled (host relay remains OFF)

2.4 Fan Speed Setting :

2.4.1 Press the "Fan Speed" button to cycle through :

High (HI) 、 Medium (MED) 、 Low (LO) 、 Auto (AUTO)

2.5 Sleep Function (SLEEP) :

2.5.1 For use during sleep

2.5.2 In Cool / Heat mode

2.5.3 Press again to cancel Sleep function

2.6 Air Direction Setting (OSC.) :

Not available (for chiller unit models) (Covered by nameplate)

2.7 Setting Auto-Off Timer (TIMER) :

While unit is ON :

Press "Timer" button (▲/▼) to set desired OFF time

2.8 Setting Auto-On Timer (TIMER) :

While unit is OFF : Press "Timer" button (▲/▼) to set desired ON time

2.9 Power On / Off (POWER On / Off) :

2.9.1 Press "Operation / Stop" button to turn ON

2.9.2 Press again while ON to turn OFF

2.9.3 When powered ON, host RELAY→On

Receiver Indicator Light Status

- 3.1 Power-on confirmation → Blue light flashes 3 times & green light stays on (turns off after 5 seconds)
- 3.2 Blue light stays on → Water valve On during operation
- 3.3 Blue light slow flash (10s off / 0.4s on) → Water valve Off during operation (serves as power indicator)
- 3.4 Blue light fast flash → Abnormal status
- 3.5 Green light → Comfort sleep mode
- 3.6 Red light → Scheduled power on/off
- 3.7 Orange light → Sleep mode + scheduled power off
- 3.8 Upon receiving signal from remote controller → Buzzer sounds once briefly

Note : 1. Red indicates correction point

- 2. The built-in temperature sensor in this receiver must be installed near the return air vent or in a well-ventilated area.

Air Conditioning Functions

■ Cooling Mode

4.1 Three-way Valve Operation

- 4.1.1 Room temperature \geq Set temperature → Three-way valve On
- 4.1.2 Room temperature \leq (Set temperature -1°C) → Three-way valve Off
- 4.1.3 Three-way valve has 1-minute delay start protection

4.2 Fan Operation

Manual Fan Mode : 3-speed adjustment (High/Medium/Low)

Auto Fan Mode in Cooling :

- 4.2.1 Room temperature \leq Set temperature → Low
- 4.2.2 Set temperature < Room temperature < (Set temperature +4°C) → Medium
- 4.2.3 Room temperature \geq (Set temperature +4°C) → High

■ Heating Mode

4.3 Three-way Valve Operation

- 4.3.1 Room temperature \leq Set temperature → Three-way valve On
- 4.3.2 Room temperature \geq Set temperature +1°C → Three-way valve Off
- 4.3.3 Three-way valve has 1-minute delay start protection

4.4 Fan Operation

Manual Fan Mode : 3-speed adjustment (High/Medium/Low)

Auto Fan Mode in Heating :

- 4.4.1 Set temperature \leq Room temperature → Low
- 4.4.2 Room temperature < Set temperature < Room temperature +4°C → Medium
- 4.4.3 Set temperature \geq Room temperature +4°C → High

Extended Models

5.1 Direct Expansion Air Conditioner Special Type (Additional Functions) :

- 5.1.1 Three-way valve has 3-minute delay start protection (Can be equipped with high-current RELAY for compressor control)
- 5.1.2 Air direction louver (OSC.) setting :
Controls main unit RELAY → ON/OFF as air direction louver function

