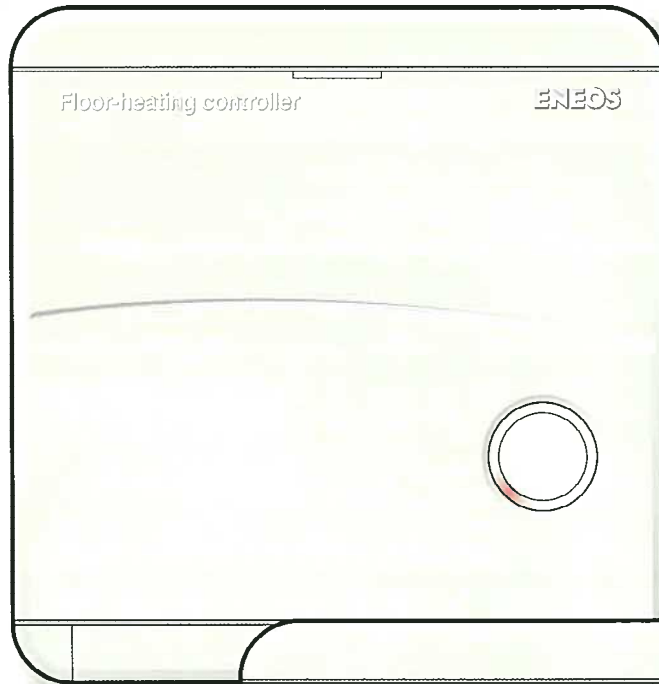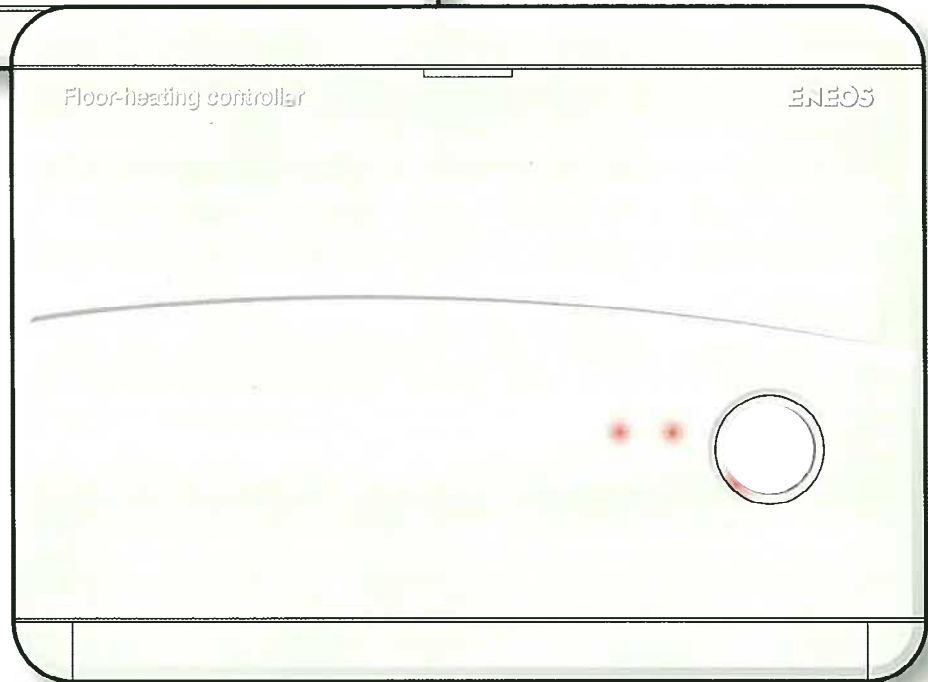# Electric Floor Heating System ゆかい～な

YCT-16/32 Cover Type Operation Manual

Thank you for purchasing our product "Yukaiina."
Before use, please read this operation manual thoroughly

Floor-heating controller　ENEOS

Controller
YCT-16
Cover Type

Floor-heating controller　ENEOS

Controller
YCT-32
Cover Type

Contents

The following must be observed

When using the product, observe the following to prevent injury or accident.

1 Do not sleep on the floor heating for long periods of time.
It may cause low temperature burns.
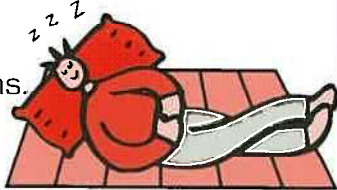
* Especially, infants, disabled persons, and persons with sensitive skin require extra caution.

**2** Do not scratch the floor with an edged tool or drive a nail into it.

* It may cause electric leakage or electric shock.

Prohibited

3 When water or coffee is spilled on the floor, wipe it off immediately.

* Failure to do so may cause electric leakage or electric shock.

1 Putting an object as shown below that prevents heat radiation on the floor heating may delay heating.
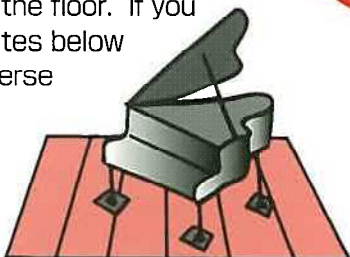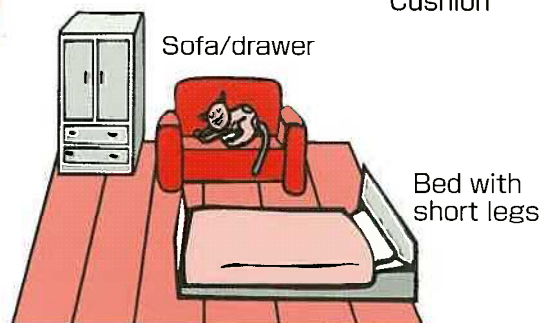
Blanket

Carpet

Cushion
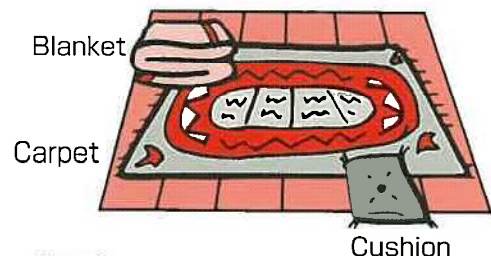
Sofa/drawer

Bed with short legs

Caution

2 Do not place a heavy object such as a piano or bed on the floor. If you need to, use plates below the legs to disperse the weight.
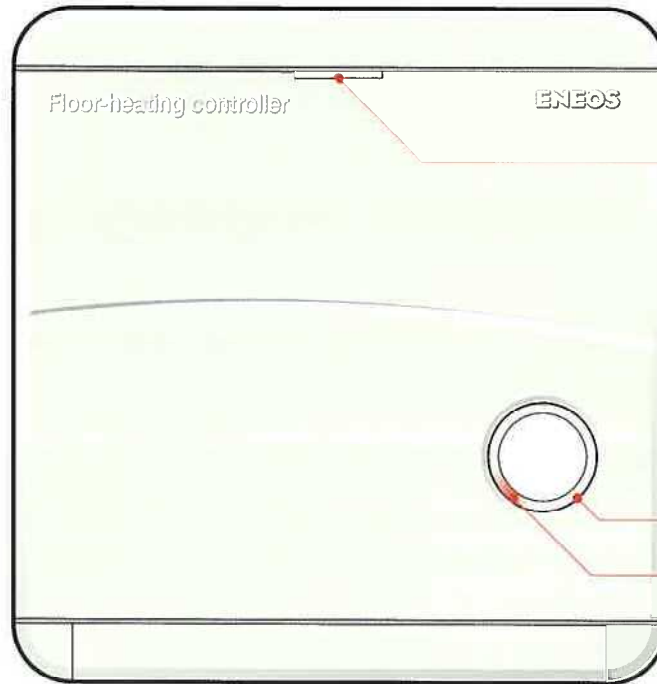
10cm square plate

Don't turn on a switch for safety device (circuit breaker) again once the safety device is activated. (Power circuit may fail)
Please contact a construction company or ENEOS customer service center and ask for inspection.

Part names and functions

Floor-heating controller — ENEOS

Open/Close knob

Operation key
Operation lamp

Time display
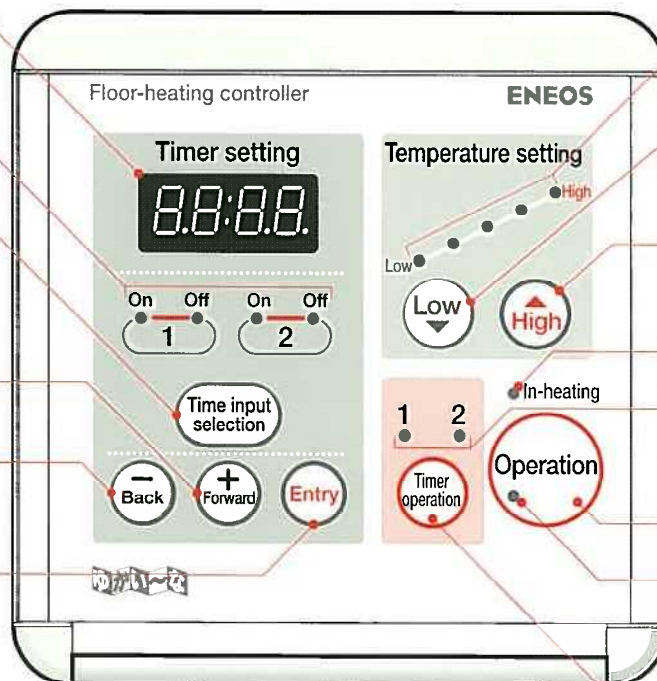
Timer setting mode
switch lamp

Timer input
selection key

Timer setting
value up key

Timer setting
value down key

Timer entry key

Floor-heating controller — ENEOS

Timer setting

Temperature setting

On Off On Off
1 2

Time input selection

— Back   + Forward   Entry

Temperature setting
5-level lamp

Temperature setting
value down key

Temperature setting
value up key

High
Low
Low   High

In-heating

1 2

Timer operation

Operation

Heating lamp

Timer 1/Timer 2
operation lamp

Operation key

Operation lamp

Timer operation
selection key

YCT-32 Cover Type

Floor-heating controller ENEOS

Open/Close knob

Operation key

Operation lamp

Heater A/Heater B
operation lamp

Time display

Timer setting
mode switch lamp

Timer input
selection key

Timer setting
value down key

Timer setting
value up key

Timer
entry key

Floor-heating controller ENEOS

Timer setting

8.8:8.8.

On Off On Off
1 2

Time input
selection

− +
Back Forward Entry

ゆかぴ〜む

Temperature setting

● High

Low ●

Low
▼

High
▲

In-heating
A ● ● B

Operation swiching
1 2 A B
● ● ● ●

Timer Heater

Operation

Temperature setting
5-level lamp

Temperature setting
value down key

Temperature setting
value up key

Heater A/Heater B
heating lamp

Heater A/Heater B
operation lamp

Timer 1/Timer 2
operation lamp

Operation key

Operation lamp

Heater A/Heater B
selection key

Timer operation
selection key

Using the controller

1 Setting time

To correct the time: Proceed to ①. When the time display is blinking: Proceed to ②.

①Make sure that the "timer setting mode switch lamp" is off.

②(Time input selection) Press and hold the timer input selection key for about 5 seconds. When the hour part of the time display starts to blink, release the key.

③(Back)(Forward) Press the up and down keys to set the hour, and press the Entry key.(Entry)

④The minute part of the time display starts to blink.

⑤(Back)(Forward) Press the up and down keys to set the minute, and press the Register key.(Entry)

⑥Time setting is complete when ":" of the time display is blinking.

Timer setting
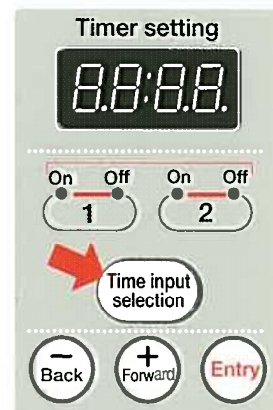
2 Setting temperature

①When you press the (Low) down key and (High) up key, the green lamp of the temperature setting 5-level lamp moves, allowing you to set the temperature.

As a guide, the temperature settings are 25°C (low), 30°C, 35°C, 40°C, and 45°C (high).

* The temperature values are the temperature of the floor heating system itself.

Temperature setting
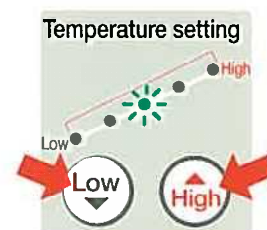
3 Operation

①When you press the Operation key, (Operation) the operation lamp illuminates and operation starts.

②When you press the Operation key during operation, the operation lamp goes off and operation stops.
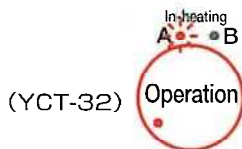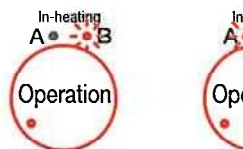
Operating   Operation paused

* During operation, the Heating lamp goes on and off repeatedly to control the system to maintain a certain temperature.
The Heating lamp goes off when the setting temperature is reached, and goes on when the temperature gets below the setting temperature.

(YCT-16)
●In-heating
Operation

(YCT-32)
In-heating
A● ●B
Operation

(YCT-16) Operation — Heating
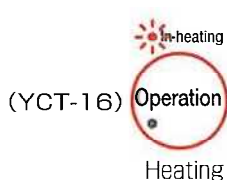
(YCT-32) Operation — Heater A heating   Operation — Heater B heating   Operation — Both sides heating

4

4 Setting Timer 1

●Setting operation start time (on) of Timer 1

Timer setting

① (Time input selection) Press the timer input selection key to turn on the Timer 1 On lamp.

② The hour part of the time display starts to blink.

③ (Back) (Forward) Press the up and down keys to set the hour, and press the Register key to confirm. (Entry)

④ The minute part of the time display starts to blink.

⑤ (Back) (Forward) Press the up and down keys to set the minute, and press the Register key to confirm. (Entry)

●Setting operation end time (off) of Timer 1

① (Time input selection) Press the timer input selection key to turn on the Timer 1 Off lamp.

② The hour part of the time display starts to blink.

③ (Back) (Forward) Press the up and down keys to set the hour, and press the Register key to confirm. (Entry)

④ The minute part of the time display starts to blink.

⑤ (Back) (Forward) Press the up and down keys to set the minute, and press the Register key to confirm. (Entry)
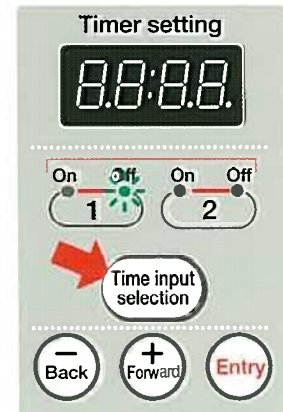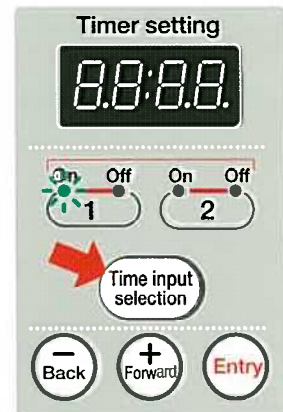
Setting Timer 2

●Setting operation start time (on) of Timer 2
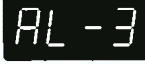
① (Time input selection) Press the timer input selection key to turn on the Timer 2 On lamp.

② The hour part of the time display starts to blink.

③ (Back) (Forward) Press the up and down keys to set the hour, and press the Register key to confirm. (Entry)

④ The minute part of the time display starts to blink.

⑤ (Back) (Forward) Press the up and down keys to set the minute, and press the Register key to confirm. (Entry)

●Setting operation end time (off) of Timer 2

① (Time input selection) Press the timer input selection key to turn on the Timer 2 Off lamp.

② The hour part of the time display starts to blink.

③ (Back) (Forward) Press the up and down keys to set the hour, and press the Register key to confirm. (Entry)

④ The minute part of the time display starts to blink.

⑤ (Back) (Forward) Press the up and down keys to set the minute, and press the Register key to confirm. (Entry)
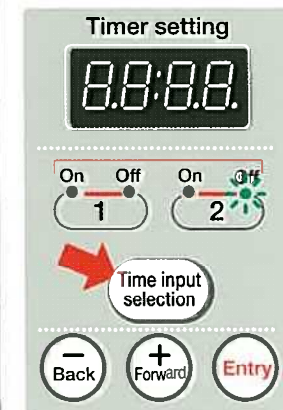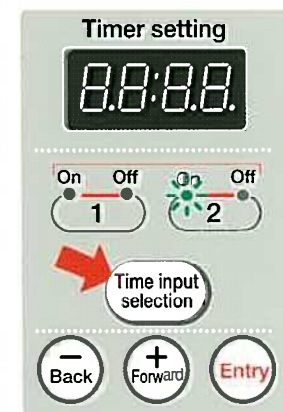
Troubleshooting

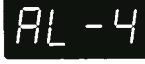| Display		State	Control output	What to do
●AL-1 blinking	$AL-1$	Failure of the controller main body	Off	Turn off the breaker and consult with the builder.
●AL-2 and the current time displayed alternately	$AL-2$	A break of Sensor A or input below -13°C	Off	Turn off the breaker and consult with the builder.
●AL-3 and the current time displayed alternately	$AL-3$	A short-circuit of Sensor A or input over 63°C	Off	Turn off the breaker and consult with the builder.
●AL-4 and the current time displayed alternately	$AL-4$	A break of Sensor B or input below -13°C	Off	Turn off the breaker and consult with the builder.
●AL-5 and the current time displayed alternately	$AL-5$	A short-circuit of Sensor B or input over 63°C	Off	Turn off the breaker and consult with the builder.
●Operation lamp blinking	Operation	Operation of the auto stop function	Off	Operation — When you press the Operation key, the operation lamp goes off and the system stops.

Ratings and specifications

●Controller for Yukaiina YCT-16

For rooms such as living rooms and dining rooms

◎Dedicated controller for up to 16A
◎Controller/relay integrated type
◎Timer function that allows 2 settings of on/off for 24-hour repeated operation
◎12-hour auto stop function
◎Safety design with both-off relay circuits

●Specifications

Rated voltage	AC100V/AC200V 50/60Hz
Rated load	16A × 1 circuit
Outer dimensions	116×120×50(32)mm(depth inside walls)
Temperature control	Relay on/off control via temperature sensor
Safety device	With shutoff alarm display function for disconnection, etc.

●Controller for Yukaiina YCT-32

Switchable between A and B faces. For larger space.

◎Two-circuit individual operation mode optimal for large space. Functions of 2 units are integrated into 1 unit.
◎Controller/relay integrated type
◎Timer function that allows 2 settings of on/off for 24-hour repeated operation
◎12-hour auto stop function
◎Safety design with both-off relay circuits

●Specifications

Rated voltage	AC100V/AC200V 50/60Hz
Rated load	16A × 2 circuit
Outer dimensions	162×120×50(32)mm(depth inside walls)
Temperature control	Relay on/off control via temperature sensor
Safety device	With shutoff alarm display function for disconnection, etc.