

# MET (Push button setting with LCD display type)



## Development Concept

1. It is our goal to offer a compact, low-priced, general-purpose electronic thermostat. With this product, we aimed at providing advanced capabilities with an easy operations but without compromise of performance .
2. A simple timer function is provided.  
"Good morning timer" and "Good night timer" are available with an integrated subtraction timer. And the contacts close or open at the specified time passed, however, the current time is not displayed.
3. A data logger to collect data by a computer is not provided.
4. A battery is not required for memory.
5. Efforts are made for easy operations, such as
  - a) Simple and easy to use settings.
  - b) Simple wire connection.
  - c) No additional components required (10A relay integrated).
6. Refer to the table below for controlling features.

## Selective Voltage/Temp. range

Power-supply voltage	normal range temperature	wide range temperature
AC 115V DC 24V DC 12V	-20°C ~ 60°C	-40°C ~ 140°C

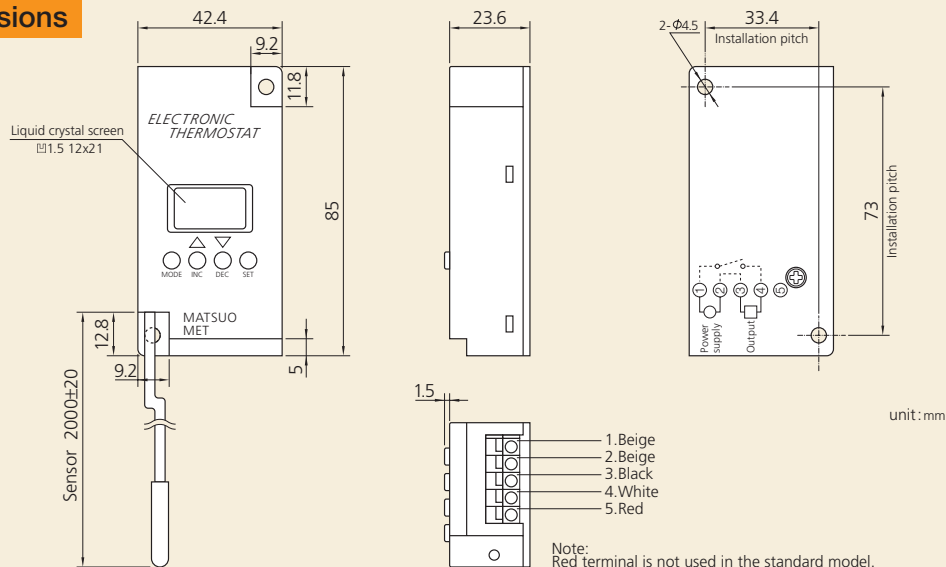
## Ratings

Power-supply voltage : AC115V, DC24V, DC12V/10A selectable  
 Memory function : No battery required  
 Voltage tolerance : -15% ~ +10%  
 Power consumption : Approx. 2VA  
 Temperature sensing : Semiconductor sensor with lead wire section (2m)  
 Output : 1a relay 10A (1c available upon request)  
 Operation mode : ON/OFF  
 Setting method : INCrease or DECrease buttons  
 Other functions : "Good morning timer"  
 "Good night timer"  
 Operating ambient temperature : (Body) -10°C ~ 55°C (Sensor) Within the specified temperature range  
 Operating ambient humidity : 35 ~ 85% (condensation excluded)  
 Storage temperature : -25°C ~ 65°C

## Characteristics

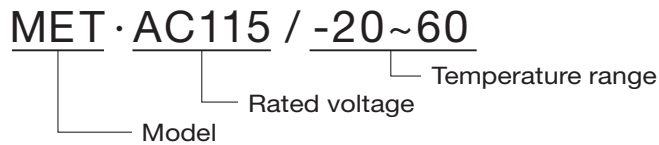
Setting accuracy : 1% of full scale  
 Temperature setting accuracy : + or - (1°C + 1 digit)  
 Temperature display : Liquid crystal digital (0.1°C)  
 Diff. setting range : 0.5k or more (unit:0.1k)  
 Measurement-shift setting : N/A  
 Sampling cycle : 0.5 Sec.  
 Insulation resistance : 20MΩ(DC500V megger)  
 Voltage tolerance : AC2,000V/1 min.  
 Vibration tolerance : Selected from JIS·C·0911-1984  
 Constant vibration : 50Hz fixed/0.2mm fixed(1G)  
 Sweep vibration : 10-55Hz/0.35mm fixed(0.2-2G)  
 Withstands for 1 hour each in directions X, Y and Z  
 Impact tolerance : No damage when dropped three times from the height of 40cm onto a concrete floor (approx. 70G).  
 Withstands substantial impact when packed or mounted in equipment.  
 Life : 1 million mechanical operations or more.  
 100,000 electrical operations or more.  
 Weight : Approx. 100g

## Dimensions



# MET type

## Model Designation Method



## Sensor Types

Sensor	A standard sensor for normal temperature	Sensor for a wide range of temperature	Over size sensor	Other specific ranges
Shape: Dimensions: Case material:	<p>Standard length 2,000 25 5φ Case material: Stainless steel</p>	<p>Standard length 2,000 45 4.5φ Case material: Stainless steel</p>	<p>Standard length 2,000 100 5φ Case material: Stainless steel</p>	<p>unit:mm upon request</p>

(The minimum length of lead wire is 1 meter)

## Custom Orders

- 1) It is more economical to use standard models.
- 2) Products may be supplied without casing for integration into an equipment.
- 3) Custom-made products with a specific temperature range or a specific lead wire length for sensors are available.
- 4) OEM is available under a condition of OEM agreement.

## Applications

Temperature control of:

- 1) Industrial equipments
- 2) Consumer products
- 3) Floor heating systems
- 4) Medical equipments
- 5) Agricultural and stock raising system etc.

## Recommendations

Various types of thermostats are available in the market. Please select the type suitable for your purpose.

Electronic thermostat is the best among many other controllers. In addition to very wide temperature range, the product can be set with a minimum differential of 0.5K.

MET is offered at the lowest price among fully featured electronic thermostats.

We offer other products for you to choose from:

1) **Temperature Power Sensor**

This product, offered at still a low price, is an appropriate one when a variable temperature setting is not required and a differential within 3-10K.

2) **Disk-type Thermostat**

The disk type thermostat is the ultimate protector which can cut off a heavy current without fail at a low cost.

Please contact our Sales Dept. to choose a product best suited for your purpose.

Note: The catalogue is subject of change without notice. Please contact us to confirm the specifications of quantity purchase.