

For marine, land and industrial uses.

Electronic paper thermometer as a substitute for a mercury one

# YMT-700

Instead of a mercury thermometer

**New Product**

2019 on sale. Already patented.

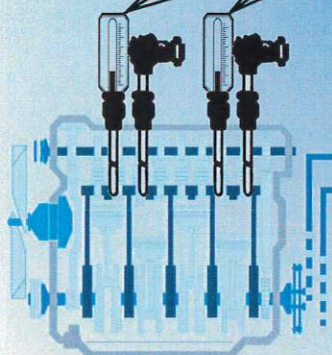
As a countermeasure product to cope with the regulation of Minamata Convention on Mercury effected on after the end of 2020

## Feature

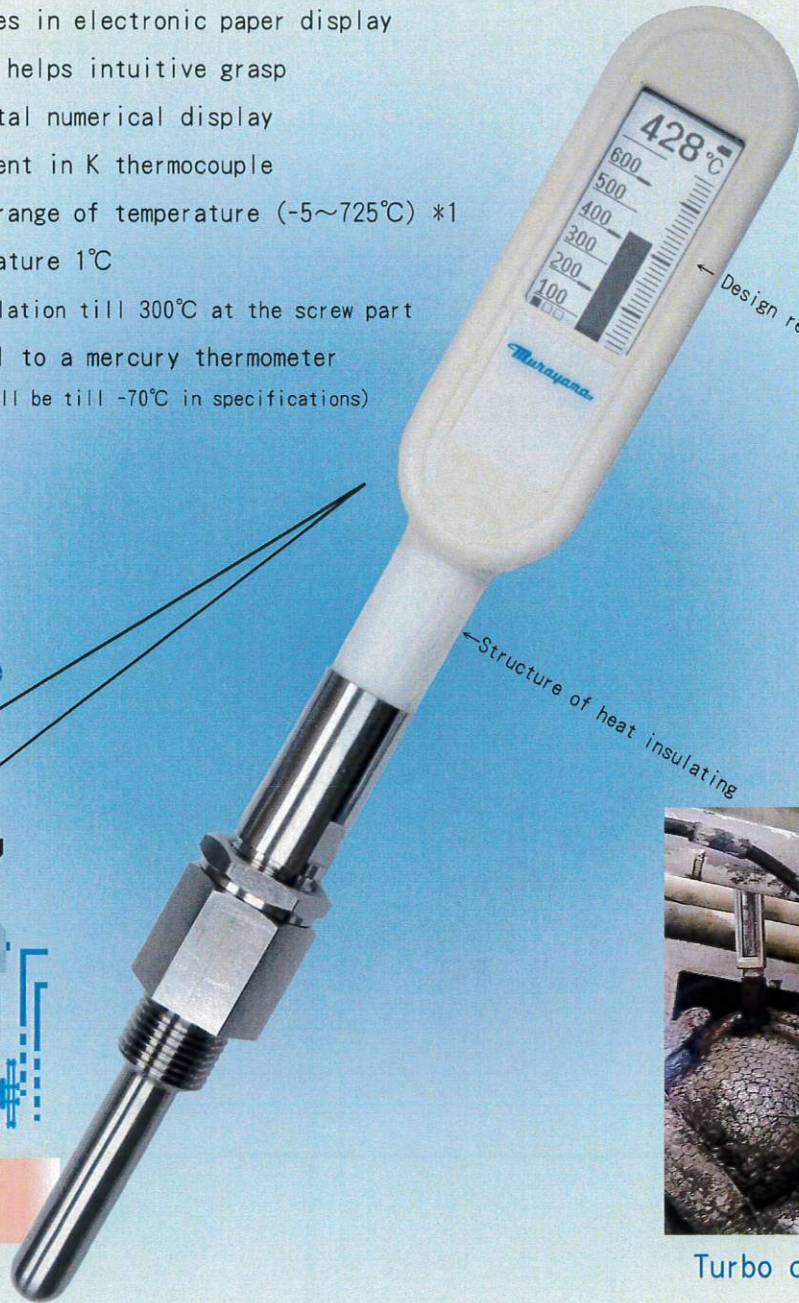
- Visibility improves in electronic paper display
  - Bar graph display helps intuitive grasp
  - Easy to read digital numerical display
  - Accurate measurement in K thermocouple
  - Wide measurement range of temperature (-5~725°C) \*1
  - Resolution temperature 1°C
  - Allowable heat insulation till 300°C at the screw part
  - Compact size equal to a mercury thermometer
- (\*1 \*Measurement range will be till -70°C in specifications)

## Uses

Exhaust gas temperature out of diesel engine



Substitute of mercury one



← Design registered. (Screen structure.)

← Structure of heat insulating



Turbo charger in

- As a substitute for a mercury thermometer to detect temperature of exhaust gas out of a marine diesel engine
- As a substitute for the mercury one to detect low temperature of a cooling medium such as a cooling device
- For measuring high and low temperature of unmeasurementable range in an alcohol thermometer
- Data output of temperature is available as an option for remote monitoring

1. Name of Item

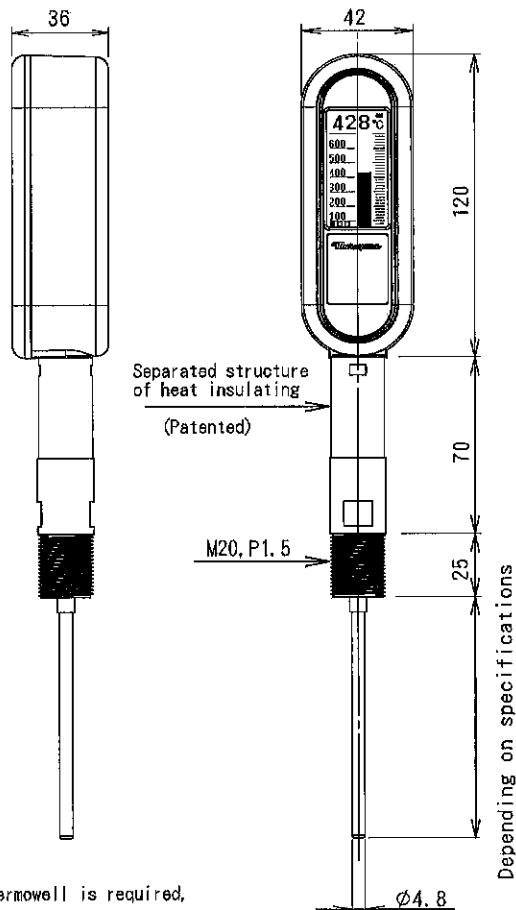
Electronic paper thermometer as a substitute for a mercury one. Type [YMT-700]

2. Summary specifications

- 1. Measurement range -5~725°C (Both numerical and bar display.)
- 2. Measurement accuracy ±0.5%F.S (±1 digit) (-4~700°C) at detected value.
- 3. Measurement resolution 1°C in numerical display  
Intervals between scale of bar display at 2°C(60°C)/10°C(300°C)/20°C(700°C).
- 4. Type of display Both numerical and bar display in electronic paper's screen.  
Measurement scales in bar display automatically change through the 3 steps switchover to 60°C range, 300°C range and 700°C range.
- 5. Waterproof IP64
- 6. Operating temp & humidity 0°C~50°C (30~90%) Never dew condenses.
- 7. Measurement interval Approximate 10~180 minutes. (Depending on temperature change.)
- 8. Storage temp & humidity -20°C~60°C (30~90%RH) Never dew condenses and freezing.
- 9. Power CR17450A-2WK35(3V Lithium battery)
- 10. Battery life Approximate 5 years (Weight of battery 44g ;Lithium1.7g)
- 11. Outside dimension Refer to the under outline drawings.  
(Size of sensor is depending on specifications)
- 12. Weight Approximate 370g

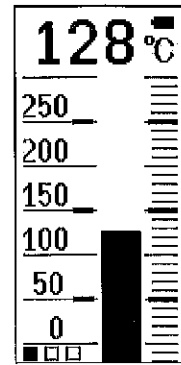
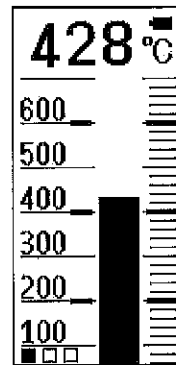
Actual size of electronic paper screen

Outline drawings

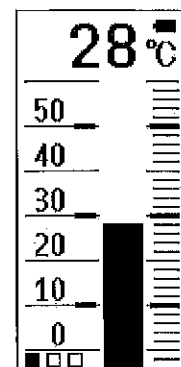


In case that a thermowell is required, information on its configuration, material and size must be provided with us on your request of quotation.  
(As an example, the center of the picture in the back of this catalog, shows that the thermowell has been put on YMT-700.)

700°C Scale (Exhaust gas out of cylinders, Etc.)  
300°C Scale (Cooling water, Lubrication oil etc.)



60°C Scale (Fresh water, Sea water etc.)



Automatic switching scale

- 700°C Scale  
Over 300°C ↑ Under 295°C
- 300°C Scale  
Over 80°C ↑ Under 55°C
- 60°C Scale

(Design registered)



Development origin  
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