

For Vessel / Land / Industrial Use
Mercury Alternative Thermometer

TRA-700

*To be released in 2018 (Patent Acquired)

NEWS RELEASE for NEW PRODUCT

As an alternative to Bar Mercury Thermometer

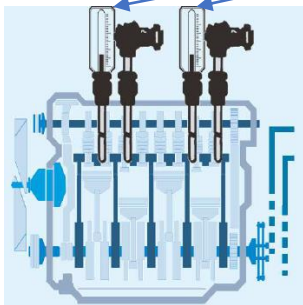
“Minamata Convention on Mercury”

TRA-700 is the countermeasure product to cope with the prohibition of manufacturing products using mercury by the end of 2020.

Features:

- Electronic Paper Display Apparatus with good visibility.
- Bar graph indication for convenient intuitive comprehension
- Easy-to-Read digital numeric display
- Accurate measurement with K-Thermocouple
- Temperature Sensing Part: Max. 550°C
- Indication (numerical indication): -5 to 725°C (by 1°C unit)
- Screw portion can withstand up to 300°C with the patented thermal insulation isolation structure.
- Small-size equal to that of mercury thermometer.

Usage:



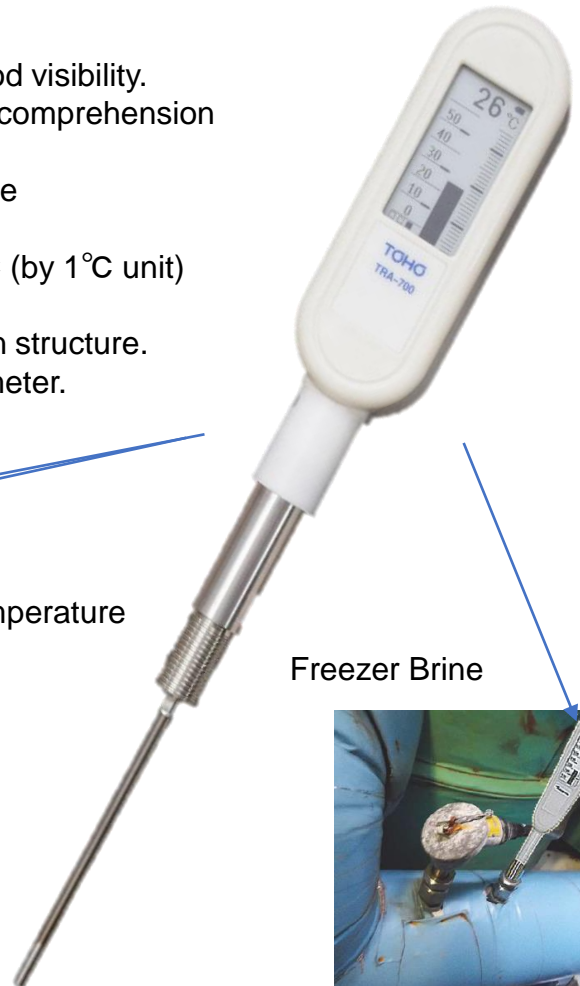
Engine Exhaust Gas Temperature

Freezer Brine



As an alternative auxiliary thermometer
In place of bar mercury thermometer.

- As an alternative to mercury thermometer to measure exhaust gas temp. of vessel engine.
- As an alternative to low temperature measuring mercury thermometer for the Freezer cooling medium.
- For measuring various high & low temperatures which is out of application range for the alcohol thermometer.

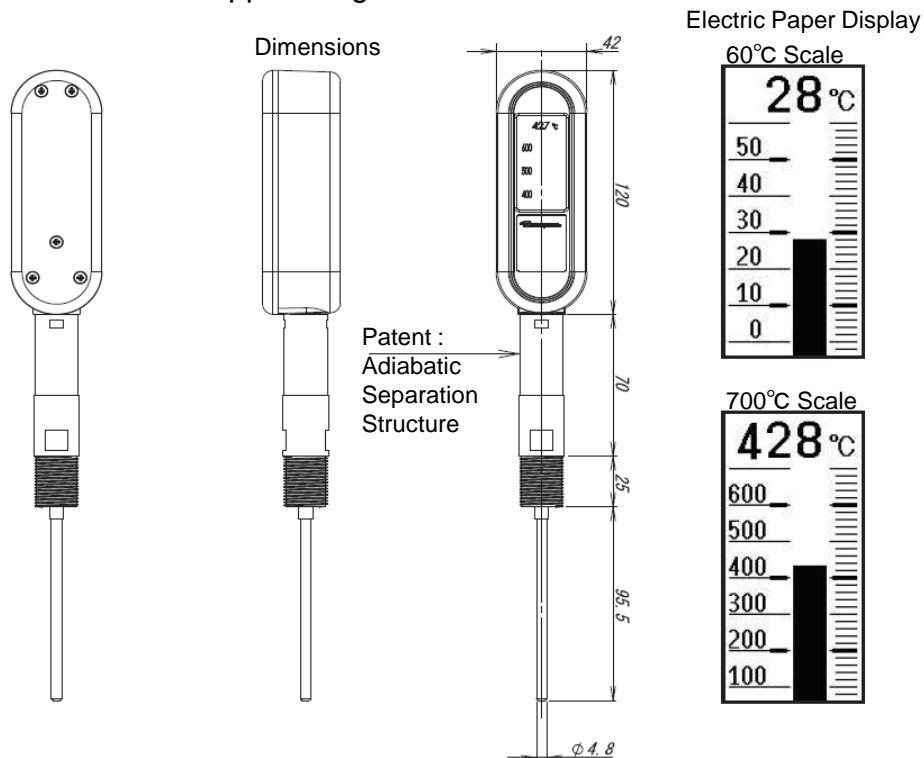


1. Product Name

Electronic Paper Type Mercury Alternative Thermometer Model: "TRA-700"

2. General Specification

1. Temperature Display Range : -5 to 725°C (Value Indication, Bar Indication)
2. Measuring Accuracy : Reading $\pm 0.5\%F.S$ (± 1 digit) (-4 to 700°C)
3. Resolution : Numerical Indication: 1°C
Bar Indication: 2°C scale (60°C range), 20°C scale (700°C range)
4. Indication Contents : Numerical + Bar Indication by electronic paper
Auto 2 range = 60°C range ($\leq 58^\circ C$), 700°C range ($\geq 62^\circ C$)
5. Waterproof Performance : IP53 equivalent
6. Operating Temp. / Humidity : 0 to 50°C (30 to 90%) No condensation
7. Measuring Interval : Appx. 10 sec. to appx. 180 sec.
(Auto-Set depending on the temperature change)
8. Storage Temp. / Humidity : -20°C to 60°C (30 to 90%RH) No icing or condensation.
9. Power Source : CR17450A – 2WK35 (3V Lithium Battery)
10. Battery Life : Appx. 5 years or more(Target Value)
※Life will change according to display update cycle.
11. External Dimension : Refer to drawing below
(sensor portion will depend on its specification)
12. Weight : Appx. 350gms.



※Please consult us if different specifications such as length and thickness are required.



TOHO ELECTRONICS INC.

Head Office: 2-4-3 Nishihashimoto, Midori-ku, Sagamihara-shi, Kanagawa 252-0131, Japan

Phone: +81-42-700-2100 FAX: +81-42-700-2112

E-Mail: overseas@toho-inc.co.jp

Web site: <http://www.toho-inc.com/english/index.html>