
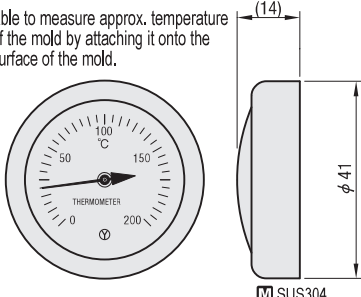


# SIMPLIFIED THERMOMETER WITH MAGNETIC-BACKED / SIMPLIFIED THERMOMETERS / RADIATION THERMOMETER



**M—HM** (Simplified thermometer with magnetic-backed)

Able to measure approx. temperature of the mold by attaching it onto the surface of the mold.



**M** SUS304  
Ferrite magnet


Temperature range (°C)	Scale (°C)	Recommended confirmation temperature range (°C)	Part Number	Unit Price
0~100	2	40~60	<b>M—HM</b>	<b>10</b>
0~200	5	80~120		<b>20</b>

Order **Part Number** **M—HM10** Days to Ship **Quotation**

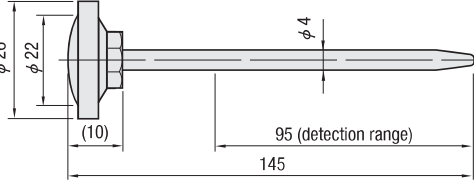
Price **Quotation**

## ■ Features

It can be attached onto a mold surface for rough temperature estimates. It measures temperature by using thermal expansion of bimetal, thus it cannot be used as a precise temperature measurement instrument. The display error is about  $\pm 1$  scale within the recommended temperature range. (It is not recommended for use if the display error is larger than the recommended temperature range.)



**TGU**  
(Simplified thermometers)



Temperature measurement range: 0~200°C Accuracy:  $\pm 5^\circ\text{C}$  within 0~200°C range. **M** SUS304

Part Number	Unit Price			
	1~9 pcs	10~19 pcs	20~49 pcs	50~100 pcs
<b>TGU</b>		<b>Quotation</b>		

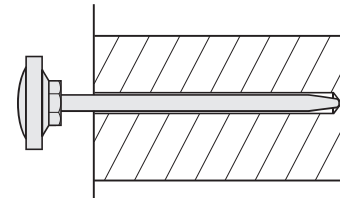
For quantities not displayed here, refer to our MISUMI website for more information.

Order **Part Number** **TGU** Days to Ship **Quotation**


Price **Quotation**



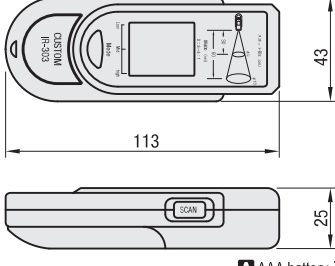
Example



● Insert into a mold to see its approximate temperature.



**TGR** (Radiation thermometer)



**A** AAA battery  $\times 2$

**Laser Light**  
Do NOT look into the beam.  
MAX=1mW 650nm  
JIS C6802(1988)  
Class 2 Laser Product

Measuring range	$-55 \sim +350^\circ\text{C}$
Indication unit	$0.1^\circ\text{C}$ ( $-9.9 \sim 199.9^\circ\text{C}$ ) $1^\circ\text{C}$ for other range
Measuring accuracy	$\pm 2\%$ rdg or $\pm 3^\circ\text{C}$ , whichever bigger
Response time	1 second
Emissivity	Variable with 0.01 increments in the range between 0.05 and 1.00


Temperature range (°C)	Part Number	Unit Price 1~9 pcs
$-55 \sim +350$	<b>TGR</b>	<b>Quotation</b>

## ■ Laser Marker Specifications

Division of Laser security : Class II  
Wavelength : Red (650nm)  
Energy radiation : MAX=1mW, JIS C6802(1988)  
Class 2 Laser product

When measuring metal color, the measured temperature may be lower.

## ■ Electrical Specifications

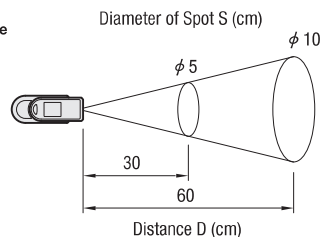
Display	3.5 digits liquid crystal display (LCD)
Low battery indicator	When voltage of battery becomes below operating voltage 
Sampling	1 time / second
Operational temperature / humidity	$0^\circ\text{C} \sim +50^\circ\text{C}$ (Subject to non condensing)
Storage temperature / humidity	$-20^\circ\text{C} \sim +65^\circ\text{C}$
Power source	AAA battery (1.5V) $\times 2$ ※
Dimensions	43.5 (W) $\times$ 113.5 (H) $\times$ 24.5 (D) mm
Weight	Approx. 85g (including batteries)

※Batteries are packed for testing purpose. Recommend for early replacement with new batteries.

Order **Part Number** **TGR** Days to Ship **Quotation**

Price **Quotation**

Example



- Surface temperature is judged by checking infrared radiation of the object.
- When the surface of object reflects the light, secure with masking tape or coat with matt finish black color.

COMPONENTS FOR MOLD COOLING AND TEMPERATURE CONTROLLING SYSTEMS