



NAKAYAMA
Co.,Ltd.

Wireless immersion thermometer

HANDY-THERMO

Battery powered wireless thermometer

TMW-3000



Exclusive battery

Exclusive battery charger

Battery powered wireless thermometer
with memory function

TMW-ZERO



Exclusive battery

Exclusive battery charger

Printer

TM-PR

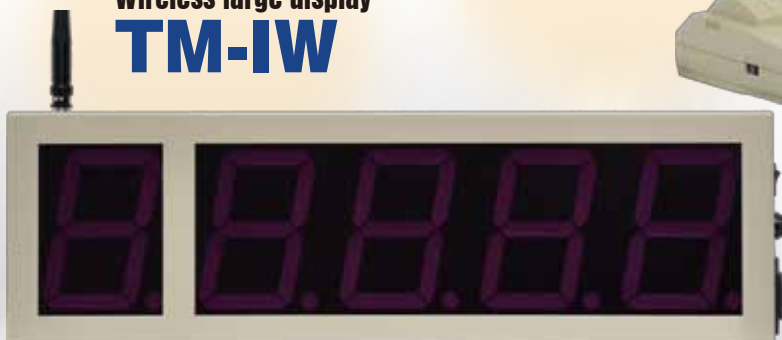


Wireless receiver

TM-RW

Wireless large display

TM-IW



TMW-3000 TMW-ZERO Feature

- Small and light handy type thermometer. Easy measurement of molten metal temperature.
- Auto peak hold with beep sound ensures displaying the max temperature.
- Automatic power-off function (1 minute).
- When the battery on the main unit is low, simply replace it with a charged one.
- Fast charge(1~1.5 h).
- Indicator is large red LED.
- Continuous 25 hour operation or up to 1200 measurements (in theory).
- Thermocouple type: B, S, R, K (standard: R) .
- The specific small electricity that is a license-free
- Line-of-sight distance: 20m(There is a condition difference)

TMW-ZERO Feature

- Easy recording of measurement up to 8,000 data.
- Data easily transferred to computer(Provided software).
- Battery is refreshed by a charge residual quantity.

System example

Use models: TMW-3000 / TMW-ZERO



1. temperature measurement
2. maximum temperature detection
3. wireless data output

A Displayed on a large display unit

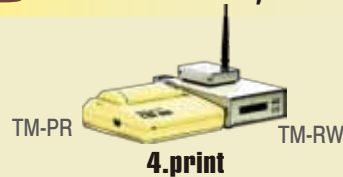
Use models: TM-IW



4.maximum temperature indication

B Printer output

Use models: TM-PR, TM-RW



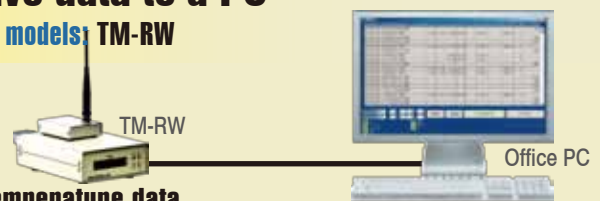
4.print

Print content

date	time	CH	Temp
2016 / 2 / 10	00:00	ch1	1450

C Save data to a PC

Use models: TM-RW

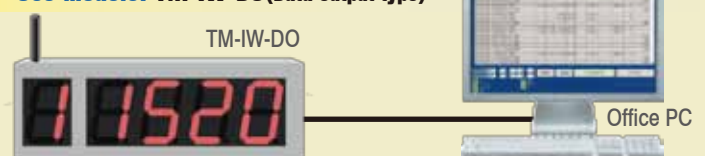


4.Temperature data communication output

5.Temperature data reception

D Displayed on a large display unit + Save data to a PC

Use models: TM-IW-DO(Data output type)



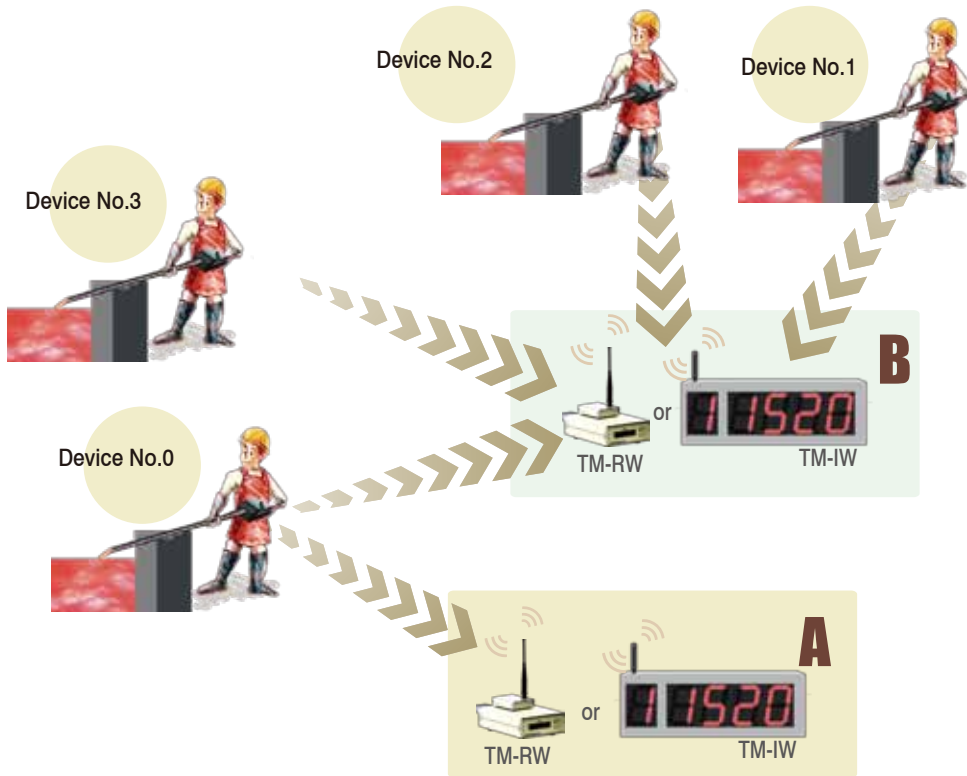
4. maximum temperature indication

5. Temperature data communication output

6.Temperature data reception

Receive filter

Use models: **TMW-3000 / TMW-ZERO**



A Device fixed type

Use models: **TM-IW / TM-RW**

Device No.0 only reception

*pecified at the time of factory

B All receive type

Use models: **TM-IW / TM-RW**

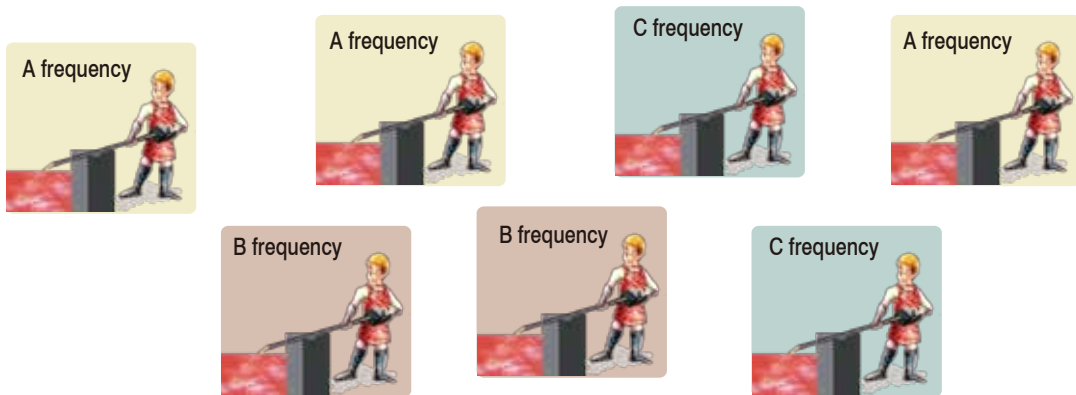
Possible to up to four

Device No.	Temp
0	Temperature of Device No.0
1	Temperature of Device No.1
2	Temperature of Device No.2
3	Temperature of Device No.3

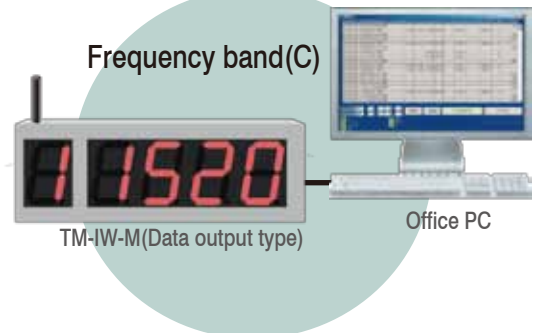
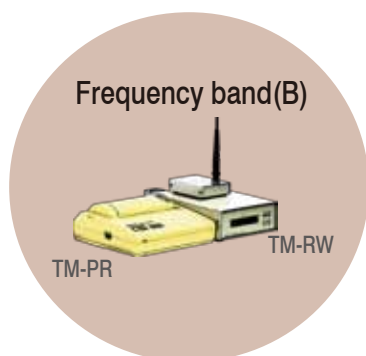
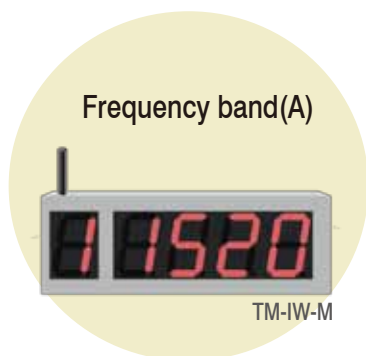
*Note: Reception is an interval for three seconds.
The reception indication is impossible at the same time.

Multifrequency type

Use models: **TMW-3000-M / TMW-ZERO-M**



Output to each frequency band



specification

Type	TMW-3000*1	TMW-ZERO*1
Dimensions	Body: W80× H35×D130 mm Charger: W69× H42×D78 mm	Body: W80× H35×D130 mm Charger: W130×H50×D175 mm
Weight	Body: About 1.2kg Charger: About 0.3kg	Body: About 1.2kg Charger: About 1.3kg
Thermo sensor	Type-R thermocouple JIS C 1602	
Measurement range	0 ~ 1700°C / 0 ~ 3092°F : Switchable	
Accuracy	±(0.3% of rdg+1°C)	
Resolution	1°C (1°F)	
Reference contact point compensation	±1°C (0 ~ 100°C) / ±1°F(0 ~ 212°F)	
Radio frequency	Specific small power (line-of-sight distance: 20m) • Standard: 429MHz(Fixed) • M-Type: 429.25, 429.35, 429.45, 429.65MHz (Select)	
Indicator	Red LED character size: 14.2 × 10 mm sensor open or upper limit : Er-S batteries are low : Er-P	
Peak hold function	Holds the maximum data of increasing temperature.	
Power off function	Switches off the power when increasing temperature is not.	
Batteries	Nickel hydrogen cell	
Recharging power source	AC100 ~ 240V	
Accessories	• Battery : 2set • Charger: 1set	• Battery : 2set • Charger: 1set • Capture software (CD): 1set

display

Type	TM-IW*1	Reception frequency	429MHz
Data output	TM-IW-DO	character	Red LED character size: 110 × 70 mm
Dimensions	W500×H150×D70mm	Power source	AC100-240V
Weight	About 3kg		

Receiver

Type	TM-PR	Printing method	Serial dot thermal printer
Dimensions	W150×H150×D250mm	Power source	Dedicated adapter
Weight	About 2kg		

Printer

Type	TM-RW*1	Reception frequency	429MHz
Dimensions	Body*2 : W130×H60×D220mm	Interface	RS232
	Antennas*3 : W65×H350×D85mm	Power source	AC100-240V
Weight	About 0.6kg		

*1 Multi-frequency type "-M"

*2 Including rear connector

*3 Including Antennas

The corresponding consumables

Please refer to the catalog of the thermometer consumables.



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