

非接觸式紅外線測溫器 MX 系列

-30°C至 900°C

-50°C至 500°C

精確度：讀值 $\pm 1\%$ 或 $\pm 1^\circ\text{C}$

重複性：讀值 $\pm 0.5\%$ 或 $\pm 1^\circ\text{C}$

反應時間：250mSec(95%)

頻譜感應：8~14 μm

檢測元件：熱電堆 (Thermopile)

溫度顯示： $^\circ\text{C}$ 或 $^\circ\text{F}$ ，小數點下一位 (至 900.0 $^\circ\text{C}$)

操作溫度：0 $^\circ\text{C}$ 至 50 $^\circ\text{C}$ (不含雷射)

相對溼度：10~95%RH@30 $^\circ\text{C}$

儲存溫度：-20 $^\circ\text{C}$ 至 50 $^\circ\text{C}$ (不含電池)

電源：3VDC, 2xAA 電池

三腳固定孔：1/4-20UNC

尺寸：200x170x50mm

重量：480g

選用配件：

A. 皮套

B. 原廠測試證明

C. RS232 輸出線 (MX4)

D. AC/DC 電源 (MX4)

E. IR Graph 軟體 (MX4)

F. 熱感應式印表機 (MX4)

(CF) 細小物件

6mm @ 300mm, D:S=50:1

(SZ) 冷凍專用

-50 $^\circ\text{C}$ ~500 $^\circ\text{C}$

勝特力材料 886-3-5753170

勝特力电子(上海) 86-21-54151736

勝特力电子(深圳) 86-755-83298787

Http://www.100y.com.tw

型號	MX2	MX4
測溫範圍	-30 $^\circ\text{C}$ ~900 $^\circ\text{C}$	
距離與量測點比	D:S=6:1	
放射率	0.10 至 1.50	
放射率表 (30 種材料)		√
圓環形雷射 (16 點)	√	√
高溫警報	√	√
低溫警報		√
溫度顯示	即時, 最高, 最低	√
	高低溫差, 平均	√
條狀式溫度比例曲線圖形	√	√
RS232 或 1mV/ $^\circ\text{C}$ 資料輸出		√
記憶 100 點溫度值/顯示日期, 時間		√
外接熱電偶 (J, K) 或熱敏電阻		√

MX™

Raytek MX Series Infrared Thermometer



Noncontact Temperature Measurement

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



When the job demands precision and accuracy.

Broad temperature range, superior optics and the True Dimension™ double-bright circular laser sighting system make the MX series thermometers the most advanced portable thermometers in the industry. The MX series thermometers featuring True Dimension coaxial laser sighting are the only thermometers designed with precise infrared beam tracking, resulting in more accurate measurement.



Raytek®

MX4+NI Nonincendive Model

When safety is a concern and data logging and downloading are required, the new Raytek MX4+ Nonincendive (NI) model thermometer is the product to choose. It has the same great features as the standard MX4+ thermometers with the extra confidence of an approval needed for use in hazardous environments. The MX4+NI thermometer, Factory Mutual approved as a Class I, Division 2 nonincendive device, does not release enough electrical or thermal energy to ignite flammable gases or vapors under normal operational and environmental conditions.

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



MX2 Options

- Close Focus
- Sub Zero
- NIST Calibration Certification
- Padded Pouch w/Belt Clip

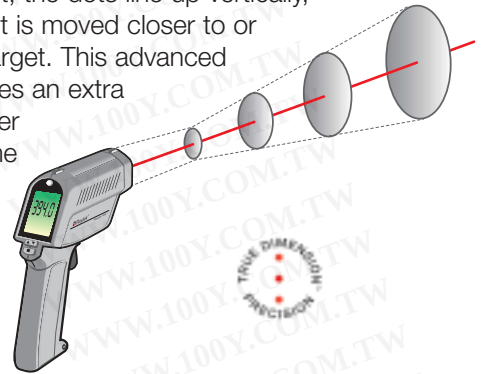
MX4+/MX4+NI Options

- Close Focus*
- Sub Zero*
- NIST Calibration Certification
- Thermistor (NTC probe)
- Portable thermal printer
- Thermal printer paper (5 rolls)
- mV/degree output cable
- Padded Pouch w/Belt Clip

* Not available with MX4+NI

True Dimension Sighting

True Dimension is a coaxial three-dot laser sighting system indicating the true diameter of a measurement spot (90% energy). The target is highlighted at all distances with a center measurement dot and two accompanying diameter markers. At the focal point, where the measurement spot size is the smallest, the dots line up vertically, rotating as the unit is moved closer to or further from the target. This advanced coaxial system uses an extra bright* 635nm laser (tested to the same safety and power standards as less bright laser sights) to clearly highlight the targeted area.



* perceived to be twice as bright as lasers with the same power by the human eye.

Advanced Display



- 100 temperature data logging capability
- 30 pre-set common material emissivity values
- Adjustable emissivity values (.01 increments)
- Customized log names, alarms, and emissivity

MX Series Accessories and Options

All models include a user guide and a hardshell carrying case. The MX4+ and MX4+NI thermometers additionally include:

- DataTemp MX software
- RS232 computer cable
- Plug-in power supply (110 or 220 volt)
(Power supply and cable not approved by FM for use in hazardous locations)
- Thermocouple K probe

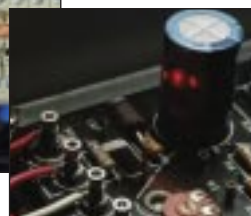
Sub Zero Option

The Sub Zero (SZ) model option is designed for measuring lower temperatures. The SZ model uses an IR sensor specially calibrated to measure freezing temperatures from -50°C (-58°F) through 500°C (932°F).



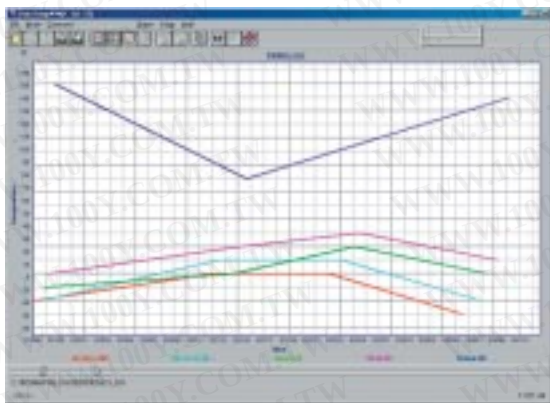
Close Focus Option

The Close Focus (CF) option lets you accurately measure very small areas at the Focus Point—where the IR beam narrows. Paired with the



True Dimension coaxial laser sighting system, extremely small objects 6 mm (.24 in) at 300mm (11.4") can be easily measured. Ideal for electrical maintenance and refrigeration trouble-shooting.

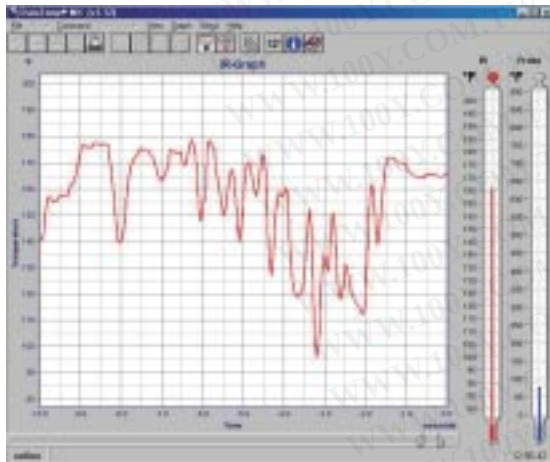
DataTemp® MX Software for Condition Monitoring and Process Control



Easily see temperature trends and potential equipment problems by graphing data accumulated with the MX's data logging feature.

Date	Time	ID	Temp	IR	Other
12/12/2008	12:20:30 PM	1001	80.4	58.8	50.0
12/12/2008	12:20:30 PM	1002	80.4	58.8	50.0
12/12/2008	12:20:30 PM	1003	80.4	58.8	50.0
12/12/2008	12:20:30 PM	1004	80.4	58.8	50.0
12/12/2008	12:20:30 PM	1005	80.4	58.8	50.0
12/12/2008	12:20:30 PM	1006	80.4	58.8	50.0
12/12/2008	12:20:30 PM	1007	80.4	58.8	50.0
12/12/2008	12:20:30 PM	1008	80.4	58.8	50.0
12/12/2008	12:20:30 PM	1009	80.4	58.8	50.0
12/12/2008	12:20:30 PM	1010	80.4	58.8	50.0

The DataTemp MX software makes it easy to error-proof inspection routes by giving names, alarm points and emissivities to locations.



The MX4+ can be used to monitor, graph, and record real-time temperature changes with the DataTemp software.

Export Format

Time format: ☐ Floating point format ☒ Regular format

Time mode: ☒ Absolute ☐ Relative to header

Date order: ☒ day/month/year ☐ month/day/year ☐ year/day/month ☐ year/month/day

Decimal digits for seconds: 2

Logging Zero: ☒ Show date: ☒ Show time: ☒ 24 Hours: ☒

Delimiter: Data: ☐ Time: ☐

Time (decimal): Date / Time: ☐ Tab: ☐ Space: ☒

Sample: 02/12/2008 23:35:36.26

OK Cancel

The DataTemp MX software provides a convenient way to export temperature data files in a format that can be used by programs such as Access®, Excel®, and condition monitoring programs.

Visualize, systematically maintain and analyze temperature data using Windows compatible Raytek DataTemp MX software

Graph

- Visually find and review trends instantly through graphs
- Simultaneously graph results while continuously monitoring temperatures
- Quickly compare temperatures of up to 5 log locations for trends or anomalies
- Display infrared and/or probe temperature trends over time
- View infrared and probe values continuously on thermometer sidebar

Data Log

- Create recognizable names for inspection locations
- Track both infrared and probe temperature trends
- Tailor high/low alarms per individual inspection location
- View min, max, and average infrared and probe temperatures
- Create and customize emissivity tables for each inspection location
- Store up to 10,000 data points in a file

Report View/Print

- Customize report views and printing formats
- Generate time and date-stamp printouts for accurate records
- Export data as text files for integration with Maintenance, Reliability, Operations (MRO) systems and other database programs

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Specifications and Features	MX2	MX4+	MX4+NI
Temperature Range	-30°C to 900°C (-25°F to 1600°F)		
Temperature Range with SZ option	-50°C to 500°C (-58°F to 932°F)		—
Accuracy (Assumes ambient operating temperature of 23°C (73°F))	±0.75% of reading or ±1°C (±2°F) whichever is greater		
Repeatability	≤ ±0.5 of reading or ≤ ±1°C (±2°F), whichever is greater		
Response Time	250 mSec (95% of reading)		
Spectral Response	8 to 14μm, thermopile detector		
Adjustable Emissivity* (from 0.1 to 1.0 by 0.01)	✓	✓	✓
Ambient Operating Temp.	0°C to 50°C (32°F to 122°F)		
Relative Humidity	10-90% at 30°C (86°F) non-condensing		
Storage Temperature	-20°C to 50°C (-25°F to 122°F)		
Weight	480g (1 lb. 6 oz.)		
Power	2 AA Batteries	2 AA Batt./AC adapter	2 AA Batt./AC adapter
Power Supply (110 or 220V), PS232 Computer Cable, 1.5 m (60 in), K thermocouple probe	—	✓	✓
Laser Class II	3-dot laser sighting (Meets IEC Class 2 & FDA Class II requirements)		
Single Laser Class III	Option (U.S. only)	—	—
Distance to Spot (D:S)	60:1 (50:1 with Close Focus Option)		60:1
Minimum Measurement Diameter	19mm (0.76") (6mm (0.24") with Close Focus Option)		19mm (0.76")
Maximum and Minimum Temperature	✓	✓	✓
Audible/Visible High/Low Alarm	✓	✓	✓
Differential and Average Temperature	—	✓	✓
Bar Graph Display	✓	✓	✓
100 Points Data Logging	—	✓	✓
Display Hold	✓	✓	✓
LCD Backlit	✓	✓	✓
Temperature Display	°C or °F selectable		
Display Resolution	0.1°C of reading up to 900°C (0.2°F up to 999.8°F)		
Data Graphing Software (Windows compatible)	—	✓	✓
Data Output: RS232 or 1mV per degree (°C or °F)	—	✓	✓
Hard Carrying Case	✓	✓	✓
Tripod Mount	1/4-20 UNC		
Nonincendive (Factory Mutual Research Nonincendive Rated, Class I, Division 2, Groups A, B, C, D; Class I, Zone 2 IIC; T4 Ta=50°C when used with 1.5V alkaline batteries. WARNING: Battery changes non-hazardous locations only. Only Raytek temp probes part XXXMXTP or XXXMXTC2 can be connected)	—	—	✓
Close Focus	Option	Option	—
Subzero	Option	Option	—
NIST DKD Calibration Certificate	Option	Option	Option
Warranty 1 Year**	✓	✓	✓

*For more details, visit www.raytek.com/emissivity.htm ** US only. Warranty duration may vary by country.

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



Raytek is an ISO 9001 certified company

