MC1000 SERIES
HANDHELD DIGITAL THERMOMETER

MC1000 is handheld digital thermometer having easy-to-read large LCD display and lighter in weight. Temperature probes having variety of shapes and sizes enable you to select a suitable one on your application demand.

FEATURES
- Emphasis on Easy-to-read
- Easy-to-read large LCD display
- Dual displays for measured data and arithmetic result
- Backlit LCD display enables to see under low-right intensity
- Emphasis on Measurement
- Multi-input (thermocouple/RTD) allows various applications
- Calibration function is a standard provision
- Exclusive connector prevents to drop a probe
- Abundant functions
- 20 data storage
- Various computation (max, min, hold, average, alarm, clock)
- 1000 hours battery life

SPECIFICATIONS
Number of input: 1 point
Input types: Thermocouple type K, T
          Resistance thermometer Pt100
Sensor connectivity: Exclusive connector. SM connector
Measuring range: Thermocouple type K  -200 to 1370°C
                   Thermocouple type T  -200 to 400°C
                   RTD Pt100          -200 to 500°C
Display resolution: 1°C  -200 to 1370°C
                   0.1°C  -99.9 to 199.9°C (manual setup)
Accuracy ratings: With a 1°C resolution
                    ±(0.1% of rdg + 1°C)
                    With a 0.1°C resolution
                    <K, T>
                    ±(0.1% of rdg + 0.5°C)
                    <Pt100>
                    -99.9 to -0.1°C  ±(0.1% of rdg +0.3°C)
                    0.0 to 199.9°C   ±(0.1% of rdg +0.2°C)
                    at ambient temperature 20 to 30°C
Display: 3-1/2 digits LCD with backlight

MODEL
MC1000-000

Data storage: Up to 20 data
Computation: Max/min/average/variables
Function: Hold
          Alarm
          Stable condition
          Temperature compensation
          Auto power off
          Clock
Battery: 2 × AA
Battery life: 1000 hours while backlight off
              100 hours while backlight on
Working temperature: 0 to 50°C
Working humidity: 10 to 80%RH (no dew condensation)
Dimensions: 76(w) × 164(H) × 36.3(D) mm
Weight: approx 250g
Casing: ABS resin
Standard: CE
Accessories: Soft transparent case, batteries, manual

1
MC1000 SERIES

OPERATION KEYS

- **HOLD**: Hold a measured value
- **LIGHT**: Turn backlight on
- **FNC**: Use parameter setup
- **MAX/MIN/AVE**: Display maximum, minimum & average
- **POWER**: On/off the power
- **REC**: Store a measured data
- **REL**: Use calculation of variables
- **READ**: Read a stored data

DISPLAY

```
K
24.3°C
14:33
```

EXTERNAL DIMENSIONS

```
56 76 36.3
42 164
```

Unit: mm

Exact size
# TEMPERATURE PROBES (Thermocouple)

## Pressure type: YC510-01K

- **Type:** K
- **Measuring range:** max 500°C (lip material: ceramic)
- **Response time:** approx 1.8 sec (90% response at aluminum block surface 150°C)

## L-shaped pressure type: YC510-05K

- **Type:** K
- **Measuring range:** max 500°C
- **Response time:** 1 sec (90% response at steel plate surface in boiling steam 100°C)

## Pressure low-temperature type: YC510-06K, YC510-06T

- **Type:** K, T
- **Measuring range:** max 200°C (lip material: ceramic)
- **Response time:** approx 1.8 sec (90% response at aluminum block surface 150°C)

## Needle type: YC520-□1K, YC520-□1T

- **Type:** K, T
- **Measuring range:** max 700°C (max 200°C with type T)
- **Tube:** φ 3.2mm/L 150 or 300mm/SUS316
- **Response time:** 1 sec or faster (90% response in stirred water)

## Pressure high-temperature type: YC510-02K

- **Type:** K
- **Measuring range:** max 800°C
- **Response time:** 4 sec (90% response at aluminum block surface 340°C)

## General type: YC520-□3K, YC520-□3T

- **Type:** K, T
- **Measuring range:** max 800°C (max 200°C with type T)
- **Tube:** φ 1.6mm/L 150 or 300mm/SUS316
- **Response time:** 0.4 sec (90% response in boiling water 100°C)

## Rapid response pressure type: YC510-03K

- **Type:** K
- **Measuring range:** max 500°C
- **Response time:** 1 sec (90% response at steel plate surface in boiling steam 100°C)

## Roller high-temperature type: YC530-02K

- **Type:** K
- **Measuring range:** max 800°C
- **Response time:** approx 2 sec (90% response at aluminum block surface 150°C)
■ TEMPERATURE PROBES (Thermocouple)

Roller pressing bearing type: YC530-03K

- Type: K
- Measuring range: max 250°C
- Response time: approx 2 sec (90% response at aluminum block surface 150°C)

Prong type with arm: YC501-K(Arm), YC511-02K(Probe)

- Type: K
- Measuring range: max 600°C
- Response time: 1 sec or faster (90% response at aluminum block surface 600°C)

Pressure type with arm: YC501-K(Arm), YC511-01K(Probe)

- Type: K
- Measuring range: max 500°C
- Response time: approx 1.8 sec (90% response at aluminum block surface 150°C)

Rapid response pressure type with arm: YC501-K(Arm), YC511-03K(Probe)

- Type: K
- Measuring range: max 500°C
- Response time: approx 1 sec (90% response at steel plate surface in boiling steam 100°C)

■ TEMPERATURE PROBES (RTD)

General type: YR520-□13

- Type: Pt100
- Measuring range: -50 to 300°C
- Response time: approx 6.8 sec (90% response in stirred water)

Rapid response type: YR520-□23

- Type: Pt100
- Measuring range: -50 to 300°C
- Response time: approx 2.3 sec (90% response in stirred water)

■ TERMINAL ADAPTER

For thermocouple
MODEL YC507-K-□
Type K,T

For RTD
MODEL YR507

■ Connect to industrial sensor

Specifications subject to change without notice. Printed in Japan (1) 2007. 12

CHINO CORPORATION
32-8 KUMANO-CHO, ITABASHI-KU, TOKYO 173-8632
Telephone: +81-3-3956-2171
Facsimile: +81-3-3956-0915
E-mail: inter@chino.co.jp
Website: http://www.chino.co.jp/