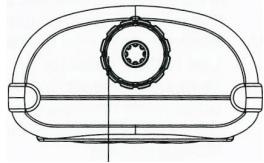## BEGIN SET UP

Unit is powered by (4) AAA batteries.
Install batteries into battery compartment on back of device. Make sure batteries are in correct polarity and good contact.

Probe Connection Port

Small notch in Connection Port will help easily install probe the correct way. Once probe is aligned with notch, push slightly and then screw probe guard to lock in place.

LCD

SYMBOLS

Upper LCD	Temperature reading
Lower LCD	Real time display
Pt	RTD (Pt) type thermo probe
HOLD	Readings are frozen unchanged
MIN/MAX	Minimum/Maximum readings
🔋	Low battery indicator
🔔	Temperature alarm indicator
ΔT	Differential Temperature
°C/°F	Celsius/Fahrenheit of temp.
REC	Manual logging
RECALL	Recall mode
⏱	Count down timer
D-M-Y	Day-Month-Year
H:M:S	Hour-Minute-Second
AM	AM
PM	PM

BUTTONS

- Power Button—Powers on and off meter. Press and hold to enter setup mode while meter is on.
  Turn on with (HOLD) to become non-sleep mode
- Recall/ESC (Escape) Button—Press to enter recall mode.
  Exits setup/recall /max/min mode.
- Differential Button—Press to show differential temperature.
  Press again to return to normal.
- HOLD Button—Freezes current readings. Selects unit or increases value in setup. Cancels data hold function.
- Memory Button—Press to record reading into memory. Selects unit or decreases value in setup.
- MIN/MAX Button— Activates MIN/MAX function. Saves and finishes settings.
- Timer Start/Stop Button— Activates or deactivates timer

OPERATION

POWER ON/OFF

Press (SET) to turn the meter on and off. Full display is shown for 3 seconds, then enters normal mode.

AUTO POWER OFF

The meter turns off automatically after 10 minutes of inactivity. To override the function, while the meter is off, hold down (SET) and (HOLD) for 2 seconds to turn on the meter until 'n" appears.
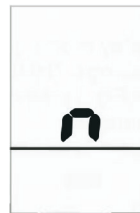
Fig. 1

DATE&TIME

The LCD can show time-of-day. While the meter is on, press (SET) for 2 seconds to enter setup mode. Press (MEMO) or (HOLD) to select P40 and press (Ma/Mn) to enter.

Press (MEMO) or (HOLD) to adjust the number of the year then press (Ma/Mn) to save. Repeat above to finish month and date setup.

Press (Ma/Mn) to enter time format selection. 12 & 24 hour time formats are selectable. Press (MEMO) or

(HOLD) to choose format and press (Ma/Mn) to save.

Continue to setup hour/min/sec by pressing (MEMO) or (HOLD) to adjust number and then press (Ma/Mn) to save.

After set up is complete, press (ESC) to return to normal display. The correct date & time will appear on LCD display.

TAKING MEASUREMENT

The meter starts measurement when powered on.

Fig. 2

DATA HOLD

In normal display mode, press (HOLD) to freeze readings, "HOLD" appears on top of LCD (Fig.3). All current readings are kept unchanged.
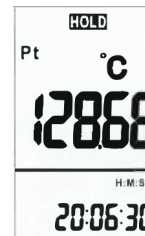Press (HOLD) again to cancel the hold function.

Fig. 3

HACCP REMINDER

While powered on, red or green backlight flashes every 5 seconds to indicate temperature hazards. While the measured temperature is above 4°C (39.2°F) and below 60°C (140°F), red color backlight flashes.

While measured temperature is below 4°C (39.2°F) or above 60°C (140°F), green color backlight flashes.

DIFFERENTIAL TEMPERATURE

In normal display mode, press (ΔT) to activate the temperature change display function. The moment (ΔT) is pressed, temperature value is taken as the base value. Afterward, the displayed readings are the temperature difference between baseline and existing temp. of measuring object. (Fig.4)

In case of fast temperature changes, press (HOLD) first to freeze a value as baseline and then press (ΔT) to activate the temperature change display function.
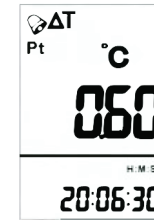
Fig.4

MIN/MAX REVIEW

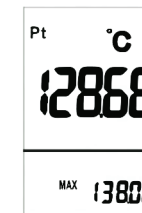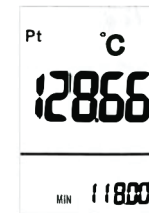This thermometer allows you to check the minimum and maximum value recorded from the moment you press (Ma/Mn) key.

Fig.5   Fig.6

Under normal mode, each press of (Ma/Mn) will switch from either showing MAX or MIN on the bottom of your LCD (Fig.5-6). Real-time temperature will continue to be shown above the MAX or MIN.

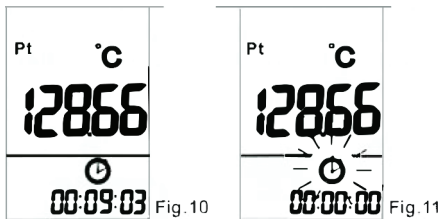To return to normal mode, press (ESC) to return showing the time-of-day.

COUNT DOWN TIMER

Thermometer is equipped with a timer function.

1. Press (SET) to enter setup mode.
2. Press (MEMO) or (HOLD) and select P10, then press (Ma/Mn).
3. Press (MEMO) or (HOLD) to adjust the timer, press (Ma/Mn) to save.
4. Press (ESC) to exit setup mode.

To start the count down timer, press (START STOP) to start. (Fig.10). To stop timer, press (START STOP). There is no pause function in this meter, once you start time again, it will start over.

Once time is up, ⏱ will flash on the bottom of the LCD (Fig .11) and beep until any one of the keys are pressed to stop it.

Fig.10   Fig.11

ALARM

appears on LCD and an audible beep will be sound when alarm is triggered, and measured temperature goes over set values. Audible alarm will stop only when temperature reading falls back between set values or any key is pressed. Flashing icon only stops when temperature return to normal range. Alarm will beep and flash once again if the temperature range exceeds the set values.

SETTING TEMPERATURE ALARM

Press (SET) to enter setup mode. Press (MEMO) or (HOLD) to select P20, then press (Ma/Mn) to enter. Press (MEMO) or (HOLD) to enable (YES) or disable (NO) the alarm function. Then, press (MEMO) or (HOLD) to adjust the alarm threshold value you

need. Press (Ma/Mn) to save. Press (Ma/Mn) to escape alarm setup mode.

Fig.12

SETUP

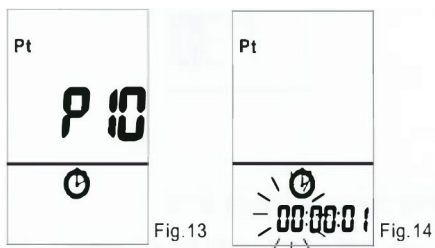Press and hold (SET) to enter setup mode. To exit setup, press (ESC) in P10 - P40 and unit will return to normal mode.

Fig.13   Fig.14

SET COUNT DOWN TIMER

When entering setup mode, P10 and (Fig .13) are displayed on LCD. Press (Ma/Mn) to go enter. Press (MEMO) or (HOLD) to adjust the timer value you need from hour to second. (Fig.14)

Then, press (Ma/Mn) to save. Press (ESC) to exit.

TEMPERATURE ALARM

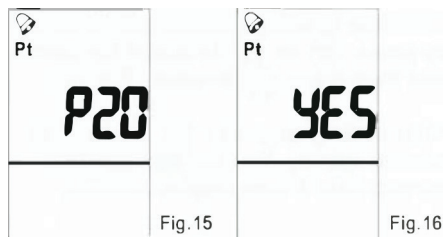When entering setup mode, P20 and (Fig.15) are displayed on LCD.

Fig.15   Fig.16

Press (Ma/Mn) to enter. Press (MEMO) or (HOLD) to enable (YES) or disable (NO) the alarm function. (Fig.16). Then, press (MEMO) or (HOLD) to adjust the alarm threshold value you need. The adjustable scale is 1 degree. Press (Ma/Mn) to save.

SELECT TEMPERATURE UNIT (°C or °F)

When entering setup mode, P30 is displayed on the LCD.
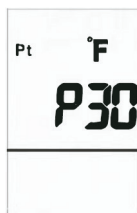Press (Ma/Mn) to view current unit of measurement on LCD (Fig. 17).

Fig.17.

Press (MEMO) or (HOLD) to choose °C or °F and press (Ma/Mn) to confirm.

REAL TIME CLOCK

Press (Ma/Mn) to set clock.

Press (MEMO) or (HOLD) to adjust year, then press (Ma/Mn) to save. Repeat above to finish month and date setup.
Press (Ma/Mn) to enter time format selection.
12 & 24 hour time formats are available. Press (MEMO) or (HOLD) to choose format and press (Ma/Mn) to save.
Continue to setup hour/minute/second by press (MEMO) or (HOLD) to adjust the numbers and then press (Ma/Mn) to save.

After setting up, press (ESC) to return to normal display. You can now see the correct date & time display on LCD.

TROUBLESHOOTING

Cant power on

Press and hold (SET) for more than 0.3 seconds and try again. Check batteries to ensure good contact and correct polarity. Also remove the batteries for >10 mins and then install the batteries again.

Fixed Readings

Ensure data HOLD button is not activated. If it is, press to deactivate.

Slow Response
Ensure probe is well connected.

Errors Messages
E05: Probe is unplugged.
E02: The value is under range.
E03: The value is over range.
E31: Temperature sensor is damaged.
E32: Memory IC damaged.

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INSTRUCTIONS