

ET3860 Series Precision Digital Thermometer



ET3860 Series Precision Digital Thermometer is a precise thermometer, which could replace mercury glass tube liquid (LIG) thermometers. The temperature measurement range is $-80\sim 450\text{ }^{\circ}\text{C}$. It also can be used as standard reference thermometer for other types of digital or analog thermometers.

1. Product Features

- The product probe contains a rapid reaction high-precision temperature sensor, the probe size is $\varnothing 6\times 500\text{mm}$. It can measure temperature quickly and accurately. The minimum immersion depth is 80mm
- Accuracy : 0.05°C
- The display module can move horizontally or vertically
- USB or wireless data transmission function, which can transfer data to PC.
- Equipped with thermometer management software, which can support 32 digital thermometers to collect data simultaneously
- Unique function- temperature trend indicator; You can configure the arrows to see if the measurements displayed are stable enough

- Temperature data automatic record function
- Automatic backlight turn-off function. The battery only needs to be charged for one time each month for most users.(The actual charging cycle is related to the usage frequency and usage function)
- Automatic shutdown function. The automatic shutdown time can be set by users
- The measured temperature value and its corresponding internal platinum resistance value can be displayed simultaneously.
- Temperature unit: °C、°F、K
- Resolution rate : 0.1, 0.001, 0.0001 for option
- Rechargeable Lithium battery. The recharging port is Type-C
- Low power consumption . The battery could be used continuously for 300 hours
- Battery power indication function
- Can be traced to other temperature standard instrument.
- Zero point(Basic point)mark function, mark the current temperature as Zero point(Basic point), then the followed measured temperature value is related temperature based on zero point.
- Over temperature warning function

Note: When stirring fluid heating source, the max immersion depth of probe must be 50mm less than whole length




2. Model



Mode;	Measurement Temp Range	Accuracy
ET3860B-180	-60°C ~ 180°C	±0.05°C
ET3860C-180		±0.1°C
ET3860B-300	-80°C ~ 300°C	±0.05°C
ET3860C-300		±0.1°C
ET3860B-450	-80°C ~ 450°C	≤ 300°C: ±0.05°C; ≥ 300°C: ±0.15°C

Note:

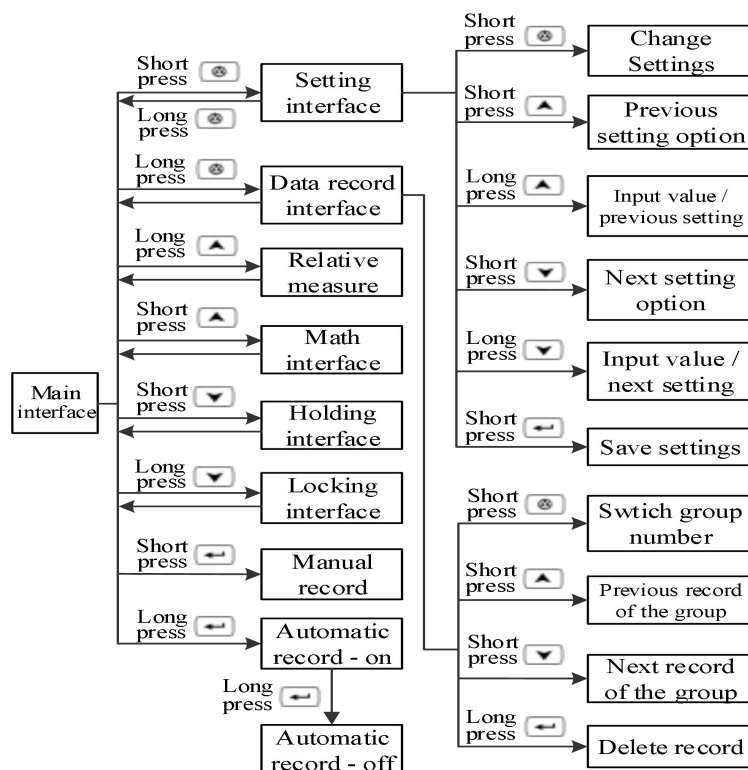
- (1) The standard probe size is φ6×500mm, other customized diameter and length must be informed when ordering
- (2) Measurement temperature ranges shall be customized.
- (3) Package:Aluminum box(ET3860B), carton box+ form packing(ET3860C)

3. Key Function

	Long Press for 2s to turn on/off instrument;Short click to control backlight to turn on/off manually
	Set operation, group number switch, etc
	Choose and switch function

	Choose and switch function
	Lock, record, delete function

4. Operation Structure



5. Set Function



In setting interface, the multiple settings can be set. Please see the detail setting items and its corresponding setting content as below:


No	Setting item	Parameter
①	Automatic backlight setting (LIGHT)	OFF、25、50、75、100 (brightness percent)
④	Sample rate (SPEED)	0.5、1.0、2.0
⑤	Decimal digits(dEcin)	0.1、0.01、0.001
⑥	Unit setting (uint)	℃、 °F、 K
⑦	interval of records (r-t)	5、 10、 30、 60、 120、 300、 600 (unit S)
⑧	Alarm types setting (ALAR)	OFF (turn off alarm)、 H (upper limit alarm)、 L (lower limit alarm)、 ON (upper and lower limit alarm)
⑨	upper limit alarm (ALAR-H)	Values can be set

⑩	lower limit alarm(ALAr-L)	Values can be set
⑪	Wireless setting (conn)	OFF、 On (IP address and COM port can be set through USB communicaiton port)
⑫	Address (Addr)	1-99
⑬	Filter(Filt)	OFF、 2、 5、 10
⑭	Trend Set(trend)	0.01、 0.1、 1.0 or 10.0 (time sample window)
⑮	Auto Power off (Auto)	OFF、 time

6. Data Record Function

The digital thermometer is able to record a total of 16 groups of data, each group can record a maximum of 8192 numbers. All the data will not be less than 116384. When recorded data is out of this range, this instrument will delete the first data group automatically and record the new one.

When deleting the current data group,the screen will flicker to avoid misoperation. If confirm, press  button, otherwise, press  to exit the deletion interface and back to record interface.

Long press  setting button in main interface, if the warning sing flicker, it indicates that there is no data recorded and fail to enter into the data record interface.

7. Contact Us

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