



## KDS800/1 Touch-screen Dry Block Temperature Calibrator

### 1 Product features

This product is easy to carry, easy to use, fast and reliable temperature efficiency, widely used in machinery, chemical industry, food, medicine and other industries. The problem of slow temperature rise and slow temperature rise is common in the existing dry test furnace in China, which leads to a long time for users to calibrate each time. The latest generation of dry well furnace of our company adopts the most advanced heating principle design in the world. It has the characteristics of fast temperature rise, fast temperature rise and fast temperature drop, which greatly improves the existing calibration efficiency.

Through reliable high precision temperature control circuit and high precision sensor, the precision is higher than that of other domestic manufacturers, and the technology has reached international standards. The first worldwide touching operation, simple and fast to use.



### 2 Main features:

- Small size, light weight, easy to carry;
- Various types of insertion tube, can meet the different size, quantity of sensor testing and calibration. And can be customized according to the special needs of users;
- Horizontal temperature and vertical temperature field;
- Check the depth of insertion with the industry leader;
- 5.7 inch TFTLCD touch screen, 16 bit true color RGB display, full touch operation, intuitive use;
- Fast cooling, easy to set, good temperature stability;
- Hot and fast replacement;
- With load short circuit, load switch, sensor protection and other functions.

### 3 General technical specifications

- 1 Language: Chinese, English;
- 2 Communication interface: USB Device (optional).
- 3 The ambient temperature range: 0~50°C (32-122°F) ;
- 4 Ambient humidity range: 0%-90% (non condensing);



**KDS INSTRUMENT CO.,LTD**

model index	KDS800-150A KDS801-150A	KDS800-150B KDS801-150B	KDS800-650 KDS801-650	KDS800-1200 KDS801-1200
temperature range	-20℃~150℃	-30℃~150℃	50℃~650℃	300℃~1200℃
heating rate	30~100:20min 30~150:40min	30~100:20min 30~150:40min	30~300:7min 30~400:12min 30~650:25min	30~1200:75min
Display accuracy	≤±0.1℃	≤±0.1℃	Below 400℃: ≤±0.35℃ 400-650℃: ≤±0.5℃	≤±1.2℃
Insertion depth	160mm		150mm	135mm
Average heat block diameter	36mm	32mm	32mm	39mm
Temperature field stability	≤±0.02℃	≤±0.02℃	≤±0.05℃	≤±0.2℃
Horizontal temperature field	≤±0.05℃	≤±0.05℃	≤±0.05℃	≤±0.25℃
Vertical temperature field	The deviation in the range of 50mm calculated from the bottom of the hole of the soaking block is 1 degree			
Temperature unit	℃ or ℉			
Temp Accuracy	0.1%			
Display resolution	0.01℃			
maximum power	Negative temperature type: 500W, medium temperature type: 800W, high temperature type: 3000W			
weight(Net weight)	Negative temperature type: 13kg, medium temperature type: 11kg, high temperature type: 11kg			
weight (Containing packaging)	Negative temperature type: 23kg, medium temperature type: 18kg, high temperature type:20kg Packaging includes aluminium box and transport wooden box			
Outline size	Negative temperature type and high temperature type: 310*190*340mm, medium temperature type: 250*150*310mm			
Use environment	Ambient temperature 0-50℃, relative humidity less than 95% (no condensation)			
Power supply	220VAC ±10%, 45 ~ 60Hz, optional 110VAC ±10%.			
Selection function	Verification Data Recording and Exporting (KDS801 only optional), up to 250 sensors, 2500 records,USB Device Communication Interface			

1. Other temperature ranges should be specified when ordering.
2. The negative temperature type of -20℃~150℃ has 4 holes,are φ6/ 8/ 10/ 12 mm .
3. The negative temperature type of -30 ~150 has 4 holes,are 6/ 8/ 12 mm.
4. The medium temperature type of has 2 kinds (2 choices 1 at the time of ordering), one is 3 holes of 8/ 10/ 12mm, the other is 4 holes of 6mm\*2, 8mm\*2.The high temperature
5. Type of 300 ~1200 has 4 holes, are 6/ 8/ 10/ 12mm.
6. Special specification aperture can be customized and should be specified when ordering.