

Jilin Test Bio-Electron Co., Ltd.

Technical Data Sheet

Product Name: Multi-parameter Kit

Product Model: TR-2000

Product Composition

It consists of ABS+silicone two-color shell, quasi 32-bit micro controller, ultra-high brightness white LED, high-performance photoelectric receiver, RGB ternary color, and consumables (tablets, measuring bottles, syringes).

Product Functions

1. The instrument can self-test, recognize faults and report error messages.
2. The instrument can test the liquid to be tested.
3. The instrument is equipped with a display and buttons for displaying test results and human-computer interaction.
4. Software upgrade.
- 5 Calibration function.

Product Features

1. Accurate measurement
2. Simple operation
3. 256*128ppi+dimnable display screen
4. Portable
5. Inexpensive

Performance Principle

With a syringe to suck up water samples injected into the measuring bottle, the detection agent and water samples to be detected in the material to be detected to react, which will make the water samples show a different color Instruments in the detection unit to use the LED light source to shoot light through the measuring bottle, a specific light will be absorbed, the degree of absorption and the measurement of the color of the liquid in the bottle related to the determination of the way compared to the naked eye is more intelligent, and can effectively reduce the human error, the accuracy of the High, simple and convenient.

Technical Specification

Display	256*128ppi/48*28mm
Light Source	1 LED
Languages	Chinese, English
Working Environment	Clean, ventilated, safe and effective operator maintenance of the required space smooth table and floor, no direct light, no strong

Jilin Test Bio-Electron Co., Ltd.

	electromagnetic interference.
Temperature	Operation : 0-50 °C; storage – 20-60 °C
Humidity Range	0-90 % RH Relative humidity (without condensation)
Data Logger	1000 test results stored
USB Port	Type C
Auto Shut Off	10 minutes
Dimensions	177mm×77mm×48mm
Weight	250g (without batteries)
Battery	3 x“AA”1.5V batteries

Accuracy & Repeatability

TOLERANCE											
FCL		pH		Alk		CyA		CalH		TCL	
Range	±	Range	±	Range	±	Range	±	Range	±	Range	±
0.00-1.00	±0.15mg/L	6.5-8.4	±0.2pH	0-40	±25mg/L	0-40	±15mg/L	0-150	±25mg/L	0.00-1.00	±0.15mg/L
1.00-2.00	±0.20mg/L			40-100	±20mg/L	40-100	±20mg/L	150-250	±50mg/L	1.00-2.00	±0.20mg/L
2.00-3.00	±0.25mg/L			100-180	±30mg/L	100-150	±25mg/L	250-500	±150mg/L	2.00-3.00	±0.25mg/L
3.00-4.00	±0.30mg/L			180-240	±35mg/L					3.00-4.00	±0.30mg/L
4.00-6.00	±0.50mg/L			240-350	±40mg/L					4.00-6.00	±0.50mg/L
6.00-8.00	±1.00mg/L			350-500	±60mg/L					6.00-8.00	±1.00mg/L
8.00-10.0	±1.50mg/L									8.00-10.0	±1.50mg/L

Safety & Reliability Certificates

ISO9001 quality management system, SDS.

How the product responds to unexpected failures and corresponding technical services

The error message numbers shown on the display are categorized as E6, E7, E8 and E9.

First, the user should check the method of operation and the clarity of the sample. If these are OK, it indicates that there may be a problem with the optical path system.

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Error Code	Possible Causes	Recommended Actions
E7	External light source entering the cell holder	Check and replace light cover
		Move the instrument to a location with less direct light
E8	Optics failure	Please contact customer service
E9	When zero calibration, the vial is dirty	Check and clean vial
	The cell holder is contaminated	Check and clean cell holder

Note

If there are matters that are not covered here, please contact the agent for more technical advice and services.