

Jilin Test Bio-Electron Co., Ltd.

Technical Data Sheet

Product Name: Multi-parameter Water Quality Tester

Product Model: TR-100

Product Composition

It consists of ABS shell, quasi-32-bit MCU, imported high-bright white LED, high-performance photoelectric receiver and consumables (tablets, measuring bottle, syringe), etc.

Product Functions

1. The instrument can self-check when it is turned on, identify faults and report error messages.
2. The instrument can test sample liquid.
3. The instrument is equipped with a display and buttons for displaying test results and human-computer interaction.
4. Calibration function.

Product Features

1. Accurate
2. Simple operation
3. 2.4-inch display
4. Inexpensive

Performance Principle

Use a syringe to draw up a water sample and inject it into the measuring bottle. The detection agent reacts with the substance to be detected in the water sample, which will make the water sample show different colors. The detection unit in the instrument uses an LED light source to emit light through the measuring bottle. Specific light will be absorbed, and the degree of absorption is related to the color of the liquid in the measuring bottle. This method is more accurate than the naked eye and will effectively reduce human errors. It is simpler and more convenient.

Technical Specification

LCD display	2.4 inch segment display
Waterproof rating	IP65
Language	English

Jilin Test Bio-Electron Co., Ltd.

Power supply 2 x LR6 1.5V "AA" batteries

Operating, transport and storage temperature 0-50°C

Relative humidity ≤93%

Working environment Clean, ventilated, safe and effective operator. Maintenance requires a stable table and floor, no direct sunlight, no strong electromagnetic interference.

Size 80mm×72mm×82mm

Weight 179g (without battery)

Accuracy & Repeatability

TOLERANCE											
FCL		pH		Alk		CyA		Br		TCL	
Range	±	Range	±	Range	±	Range	±	Range	±	Range	±
0.00-1.00	±0.20mg/L	6.5-8.4	±0.3pH	0-40	±30mg/L	0-40	±20mg/L	0-2	±0.40mg/L	0.00-1.00	±0.20mg/L
1.00-2.00	±0.25mg/L			40-100	±30mg/L	40-100	±25mg/L	2-4	±0.50mg/L	1.00-2.00	±0.25mg/L
2.00-3.00	±0.30mg/L			100-180	±35mg/L	100-150	±30mg/L	4-6	±0.60mg/L	2.00-3.00	±0.30mg/L
3.00-4.00	±0.40mg/L			180-240	±40mg/L			6-8	±0.80mg/L	3.00-4.00	±0.40mg/L
4.00-6.00	±0.70mg/L			240-350	±45mg/L			8-12	±1.50mg/L	4.00-6.00	±0.70mg/L
6.00-8.00	±1.20mg/L			350-500	±70mg/L			12-16	±2.50mg/L	6.00-8.00	±1.20mg/L
8.00-10.0	±1.50mg/L							16-20	±3.00mg/L	8.00-10.0	±1.50mg/L

Safety & Reliability Certificates

CE (Europe), ISO9001 quality management system, SDS.

How the product responds to unexpected failures and corresponding technical services

If a problem occurs during the test, TR-100 will display it as an E plus a numeric value, with the specific error message shown in the table below.

Jilin Test Bio-Electron Co., Ltd.

Error Code	Possible Causes	Recommended Actions
E6	A reminder of zero calibration	Zero calibration
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	The vial is dirty during zero calibration	Check and clean the vial
	The chamber is contaminated	Check and clean chamber

A common cause of triggering the above error messages is contamination of the chamber and vial. Please refer to "Cleaning".

Note

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