

Oil Product Analyzer



TY-OP-100S
Portable oil product analyzer

Product Overview

Portable oil analyzer uses X-ray fluorescence analysis technology to quickly analyze and measure the sulfur content in various fuel oils on site. The analyzer meets the requirements of international standard ISO8754 for the detection of sulfur content of fuel oil in MARPOL International Marine Fuel Oil Specification ISO82172010. The instrument has a safe closed ray sample chamber, and the analysis software can perform various fuel oil analysis and detection, and its role is comparable to that of a mobile laboratory. The device not only provides users with the operational performance and safety features of traditional benchtop EDXRF(Energy Dispersive Fluorescent X-ray), but also has the advantages of cost-effective and robust portable XRF analysis.



Portable oil product analyzer

Product Advantages

- Streamlined shell, new portable design, easier to carry;
- Weight less than 4.5KG, light weight, small size, easy to work outdoors. Suitable for all platforms, such as mobile laboratory, mobile vehicle and other platforms;
- The instrument can automatically generate the test report in Excel format, which is convenient to save and transmit the report;
- The instrument is equipped with mobile power supply, plug and play, anytime and anywhere can be tested;
- Touch user interface, the test is intuitive, the spectrum is clear, the data is accurate;
- Diesel, gasoline, heavy oil automatic identification calibration curve;
- No need to convert gas, heating element, quartz tube or string;
- Intelligent warning system to ensure the safety of testers;
- Transparent test window, ensure the test sample location at a glance;
- Triple safety protection function, automatic induction, the instrument automatically stops working when the sample cavity is opened;

Technical Specification

Model No.	TY-OP-100S
Equipment weight	≤4.5KG
Size	220*260*280mm
Detector	Large area Fast-SDD detector
Monitor	5"LCD display touch screen
Dynamic range	1ppm~20%
Measuring time	30~300S
Collimating hole	φ5.0mm
Sample size	5ml
Data entry	Touch screen
Data transfer	USB, Bluetooth, WIFI
Security protection	Password protection
Battery	Rechargeable mobile battery that can support more than 4 hours of continuous operation
Standard accessories	Waterproof and seismic protection case, portable Bluetooth printer, rechargeable portable power supply, 110/220V AC charger/power adapter, USB interface cable, self-adhesive label printer paper, sample cup case (including sample cup), test film
Operating temperature range	-10°C~50°C
X-ray Source	10KV, 1000uA

Alloying Element Analyzer



Product Overview

Laser induced breakdown spectroscopy is an efficient and rapid method for elemental analysis, which can realize real-time analysis and detection of solid samples without sample processing. It can be used to analyze a variety of materials, including metals, ores, glass, ceramics, plastics, etc., so it is widely used in materials research, quality control, environmental monitoring, resource exploration and other fields.

Compared with X-ray fluorescence analysis means,LIBS technology has no radiation and absolute analytical performance advantages for light weight elements, especially magnesium, aluminum and other elements, and is currently one of the most effective means for direct analysis of magnesium and aluminum alloy materials in the world.



Handheld alloying element analyzer

Product Advantages

- 1. No radiation, no need for radiation protection;
- 2. Small sampling point, suitable for various forms of sample recovery;
- 3. Detection of light elements (Z<12), can accurately detect Al, Be, Mg and other elements;
- 4. Light and portable, the whole machine mass ≤2kg(including battery), long standby time, worry-free;
- 5. Fast analysis, sample test fast analysis only 2 seconds, after the test is completed, the software will automatically switch to the test result page, real-time display of sample type and element content;
- 6. Outstanding sample form compatibility, solid sample direct analysis, is a powerful means of rapid screening, compatible with all shapes of alloy samples.

Technical Specification

Model No.	TY-LIBS-100
Use	Qualitative and quantitative analysis of the target object
Principle	New spectral analysis technique based on laser-matter interaction
Detection of Element Range	Aluminum alloy: ANiMgTiFeCuSnPbZnZrBeSrScMnAgCrS Alloy steel: CuFeAlMnSnPbZnNiMgCrCoBeSiNb Iron alloy :FeCuNiMnCrAlCoTiMoSiV
Test object	Alloy
Measuring content range	0.05% or more
Testing time	≤5s
Light source type	Pulsed laser
Laser wavelength	1535nm
Laser lifetime	Excites 1 billion times
Working Distance	Fit probe plane
Detection limit	0.05%
Database	Standard database: Aluminum alloy, iron alloy, copper alloy matching database: nickel alloy, titanium alloy, gold and silver platinum palladium precious metals
Host weight	≤2kg
Screen	LCD + capacitive touch

Soil Heavy Metal Analyzer



TY-SHM-9000
Portable soil heavy metal analyzer

Product Overview

Portable soil heavy metal analyzer is the use of a new large screen high resolution liquid crystal display screen and a new digital multi-channel data processor portable soil heavy metal analyzer. It can conduct in-situ testing and remediation analysis of soil pollutants, and effectively detect heavy metal elements such as mercury, cadmium, lead, arsenic, copper, zinc, nickel, cobalt, vanadium, chromium and manganese in polluted soil. It can also be customized to increase detection elements according to customer needs. The instrument is not only small in size and light in weight, but can be carried with you for measurement; And the performance is excellent, comparable to desktop computers



Portable soil heavy metal analyzer

Product Advantages

- 1. Convenient operation
Light weight, small size, ergonomic handle design, equipped with a special instrument set, easier to grasp, more convenient field use. 270° can rotate 5 inches HD screen, support multi-point control, can be clearly displayed in any light. There is no need to prepare samples, and it can be measured directly on the surface of the test object.
- 2. Excellent performance
At the same time detection: mercury, cadmium, lead, arsenic, copper, zinc, nickel, cobalt, vanadium, chromium, manganese and other heavy metal elements, can also be customized according to customer needs to increase detection elements. Ultra-close optical path design, improve the counting rate to more than 5 times, greatly shorten the test time, can fully meet the needs of handheld detection.
- 3. Powerful power
optional super 27000mAh lithium battery, the battery life can be up to three days. And equipped with AC and car charger to ensure the power supply. Built-in memory battery, change the battery constant power.
- 4. Safety protection
intelligent three-color warning system :LED three-color long light belt design, 360 degrees without dead Angle display. When powered on, the green light is on, the test red light is blinking, the equipment fault yellow light is blinking, and the instrument status is clear at a glance.

Technical Specification

Model No.	TY-SHM-9000
Method of analysis	Energy dispersive X-ray fluorescence analysis method
Measuring the range of elements	Elements with atomic numbers from 12 to 92 [magnesium (Mg) to uranium (U)] can be measured
Simultaneous detection of elements	40 elements can be analyzed simultaneously
Microcomputer system	Professional custom system, CPU: ten core, storage: 4G, system memory: 64G, maximum storage support 128G, standard 16G, can be mass storage data
Content range	ppm - 99.99%
Detection time	1-60 seconds (one second to report results and brand number)
Test object	Solids, liquids, powders
Detector	Fast-SDD detector
Detector resolution	<129eV
Collimator and filter	Diameter 4.0mm and 2.0mm collimator, 6 filter combinations automatically switch
Video system	8 million HD autofocus cameras
Display	5 "HD display, support more than 2 touch points;
Detection Limit	The minimum detection limit is 1-500 ppm
Instrument weight	< 2.0 Kg

Laboratory Analytical Instruments



Product Overview

The laboratory benchtop water quality sensor is a high-precision, multi-parameter water quality analysis device designed for laboratory environments. It is suitable for systematic and professional testing and research of water quality. It can accurately measure a variety of key water quality indicators. The benchtop structure is stable and supports long-term continuous operation. With a professional software system, it helps users achieve efficient management of the entire process from data collection to in-depth analysis.



TY-SZ50 Laboratory Benchtop Sensors

Product Advantages

- Automatic temperature compensation function;
- Measurement data stable icon prompt;
- Large screen LCD display with backlight;
- Record 120 sets of measurement data for easy viewing;
- Microcomputer design, menu browsing, battery/AC220V
- Electrode holders can be installed on both sides of the body and multiple electrodes can be fixed, keeping 90 degrees with the measurement plane;

Technical Specification

Model No.		TY-SZ50
PH	Measuring range	-2.00-16.00 pH
	Resolution	0.01 pH
	Indication error	±0.2%FS
ORP	Measuring range	-2000-2000mV
	Resolution	1mV
	Indication error	±0.2%FS
Oxygen concentration	Measuring range	0.00mg/L-40.0mg/L
	Resolution	0.01mg/L
	Indication error	±0.2%FS
Conductivity	Measuring range	0.0000-400.0mS/cm
	Resolution	0.001uS/cm-0.1mS/cm
	Indication error	±0.5%FS
Salinity	Measuring range	0.0-260.0g/L
	Resolution	0.1g/L
	Indication error	±0.5%FS
TDS	SAL coefficient	0.6
	Measuring range	0.0000ppm-200.0ppt
	Resolution	0.001 mg/L-0.1g/L
other	Indication error	±0.5%FS
	Power supply	4 AAA batteries Transformer 100-220v
	Usage Environment	-5~60°C; relative temperature <90%
	Data storage	120 sets of measurement value storage function

Laboratory Analytical Instruments



TY-SZ20

Pen-type water quality
sensor

Product Overview

The pen-type water quality sensor is a water quality detection tool that integrates portability, intelligence and high precision. It is designed for rapid and on-site detection of water quality parameters. It is as light as a pen and easy to operate. It can be widely used in environmental monitoring, aquaculture, drinking water safety, laboratory research, industrial wastewater treatment and other fields. Through advanced sensing technology, it can detect a variety of key water quality indicators in real time, helping users quickly obtain the health status of water bodies and provide a scientific basis for water quality management.



TY-SZ20 Pen-type water quality sensor

Product Advantages

- Precision easy operation: all functions operated in one hand.
- Optional backlight LED
- Display data in real time
- 1.5V *4PCS long battery life.
- Auto Lock Function
- Automatic shutdown: 5 minutes

Technical Specification

Model No.		TY-SZ20
PH	Measurement range	0.1~14PH
	Resolution	0.1PH
	Accuracy	±0.1PH
ORP	Measurement range	±1200mV
	Resolution	1mV
	Accuracy	±2mV
Conductivity	Measurement range	0-5000µs/cm
	Resolution	1µs/cm
	Accuracy	±2%FS
Salinity	Measurement range	0-10%
	Resolution	0.1%
	Accuracy	±0.2%
TDS	Measurement range	0-2500ppm
	Resolution	1ppm
	Accuracy	±2%FS
other	Working Temperature	0~50 °C(32~122F)
	power supply	1.5V battery*4PCS

Laboratory Analytical Instruments



Product Overview

Portable water quality rapid tester, the product has 380nm, 430nm, 510nm, 540nm, 590nm, 610nm, 630nm and other wavelengths of LED light source, with more stable optical performance, the host includes 3 colorimetric methods: bottle colorimetric, tube colorimetric, dish colorimetric, etc., among which the tube colorimetric method is multi-light source instantaneous scanning colorimetric, non-mechanical rotation reduces 80% of the mechanical failure rate, making the detection simpler and more stable. Color touch screen operation, for easy operation, the screen size is not less than 5 inches. Widely used in scientific research, colleges and universities, sewage treatment plants, water environment testing, enterprise sewage self-inspection and other fields..



TY-MI200 Portable water quality rapid tester

Product Advantages

- Accurate determination: Adopting chemical metrology statistics, multiple sets of data are intelligently analyzed and counted to effectively reduce the measurement error.
- Colorimetric method: tube and bottle dual colorimetric system, equipped with patented technology multi-light source instantaneous scanning colorimetric, to meet various detection needs.
- Dual-temperature digestion: It has dual-temperature zone independent digestion function, and the digestion temperature can be freely set in each temperature zone.
- Cooling system: Standard ultra-fast FAN cooling system, the rate of high-temperature digestion tube cooling to room temperature is greatly improved.
- Simple operation: 5-inch color touch screen, guided operating system, humanized interface, and easy to understand after turning on the machine.
- Storage and printing: 20,000 sets of data storage, one-click printing of experimental data.
- Prefabricated reagents: Standard prefabricated reagents, safe, accurate and fast, no need for users to prepare by themselves.

Technical Specification

Model No.		TY-MI200
COD	Measurement range	0~10000mg/L
	Measurement accuracy	≤±5%
	Repeatability	≤±5%
Ammonia Nitrogen	Measurement range	0~50 mg/L
	Measurement accuracy	≤±5%
	Repeatability	≤±5%
Total Phosphorus	Measurement range	0~30 mg/L
	Measurement accuracy	≤±3%
	Repeatability	≤±5%
Total Nitrogen	Measurement range	0~300mg/L
	Measurement accuracy	≤±3%
	Repeatability	≤±5%
other	Light source stability	≤0.001A/20min
	Power supply	220V 50Hz

Laboratory Analytical Instruments



Product Overview

The pesticide residue detector uses enzyme inhibition rate colorimetry to quickly and accurately detect the content of organophosphorus and carbamate pesticides in agricultural and forestry products such as fruits and vegetables.

It is widely used for rapid detection of organophosphorus and carbamate pesticide residues in vegetables, fruits, tea grains, agricultural and sideline products and other foods; in addition, it can also be used for on-site detection in fruit and vegetable tea production bases and agricultural trade wholesale markets, and for safety rapid testing before processing fruits and vegetables in restaurants, schools, canteens, and households.



TY-NC Pesticide residue detector

Product Advantages

- The instrument has a list of more than 100 vegetable names, classified management, and can add or delete vegetable names as needed, edit vegetable names, and directly print out vegetable names;
- Detection channel: 12 detection channels, can test multiple samples at the same time, cycle detection, release and test, each sample program control works independently, and will not interfere with each other;
- Intelligent operating system, more humanized operation, the main control adopts a core processor, the main frequency is 1.88Ghz, the operation speed is fast, and the stability is stronger;
- The light source adopts ultra-high light-emitting diodes, which have the advantages of low power consumption, high precision, strong stability, controllable light source, can turn off unused light sources, and fast response speed.;
- High degree of intelligence, the instrument has self-test function: self-test and zero adjustment function at power-on, and automatic detection of repeat performance;
- DC12v power supply, higher safety system, and equipped with 6A lithium battery charger;

Technical Specification

Model No.	TY-NC
Wavelength configuration	410nm
Drift	0.005Abs/3min
Inhibition rate display range	0% ~ 100%
Inhibition rate measurement range	0% ~ 100%
Transmittance accuracy	+1.5%
Transmittance repeatability	≤0.5%
Inhibition rate indication error	10%
Inhibition rate repeatability	≤5%



Product Overview

The portable food safety analyzer is a fast, accurate and convenient intelligent testing device designed for food production, circulation, catering and other links. It can screen harmful substances in food in real time to ensure the safety of the entire chain from "farm to table". Its lightweight body, intelligent operation and multi-scenario applicability make it an ideal choice for food safety supervisors, corporate quality inspection departments, catering practitioners and even home users.



TY-B1601 Portable Food Safety Analyzer

Product Advantages

- High degree of intelligence, the instrument has self-test function, power-on self-test and zero adjustment function, and automatic detection repeatability function;
- Integrated host, including food safety detection module, colloidal gold detection module, multi-channel pesticide residue detection module;
- The integrated portable rapid testing equipment meets the needs of on-site and mobile testing. It can realize the testing of all test items under the same software, and can intuitively display the test results through the same window;
- High sensitivity, high detection accuracy, high repeatability accuracy, scanning high-precision optical sensor;
- The instrument has a constant temperature heating function, the minimum temperature is 0.1℃, and the temperature control range is room temperature-60℃;
- Built-in lithium battery: meets the needs of at least 8 hours of external flow testing;

Technical Specification

Model No.	TY-B1601
Wavelength accuracy	≤±0.2nm
Indication error	≤±0.3%
Wavelength repeatability	≤0.1nm
Transmittance accuracy	≤±0.5%
Power supply	DC 12V, can be equipped with 6ah rechargeable lithium battery
Data storage	200000
Display Mode	8-inch LCD touch screen display

Laboratory Analytical Instruments



Product Overview

Soil moisture is an important component of soil and plays a very important role in crop growth, water-saving irrigation, etc. The distribution of soil moisture (soil moisture) can be mastered through the GPS positioning system, providing a scientific basis for differentiated water-saving irrigation. At the same time, accurate water supply is also conducive to improving crop yield and quality.



TY-ST-S Soil Moisture Analyzer

Product Advantages

- Accurate measurement: Using high-precision sensors, the measurement results are accurate and reliable, which can meet the needs of different application scenarios.
- Fast and efficient: The measurement speed is fast, and soil moisture data can be quickly obtained without complicated operations.
- Portable and easy to use: Small size, light weight, easy to carry, suitable for field operations.
- Powerful functions: With data storage, wireless transmission, GPS positioning and other functions, it is convenient for data management and analysis.
- Wide application: Applicable to agricultural irrigation, soil moisture monitoring, ecological environment protection, geological disaster warning and other fields.

Technical Specification

Model No.	TY-ST-S
Moisture unit	% (m3/m3)
Moisture content test range	0-100%
Resolution	0.1%
Accuracy	± 2%
Response time	≤2 seconds
Relative percentage error	≤3%
Soil moisture sensor operating temperature	-40℃—80℃



Product Overview

Soil moisture is an important component of soil and plays a very important role in crop growth, water-saving irrigation, etc. The distribution of soil moisture (soil moisture) can be mastered through the GPS positioning system, providing a scientific basis for differentiated water-saving irrigation. At the same time, accurate water supply is also conducive to improving crop yield and quality.



TY-YH Soil ORP Meter

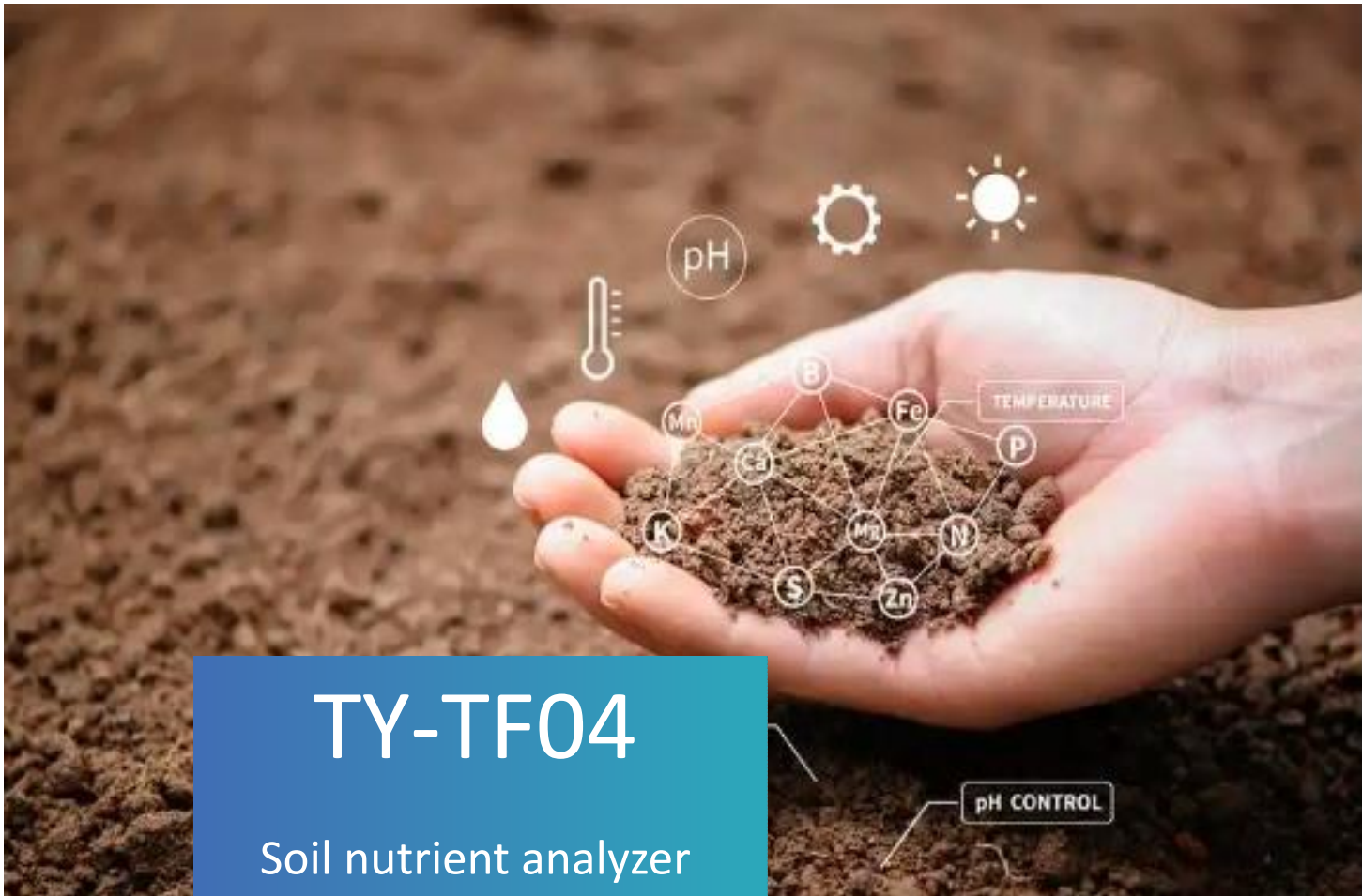
Product Advantages

- Continuous detection, data collection time can be set in minutes;
- With automatic temperature compensation function, supports manual temperature compensation;
- Equipped with special ORP electrode, reference electrode and stainless steel hollow pole, can be directly inserted into the soil;
- With reading lock function (automatic reading), the measurement result is the final result, no conversion and calculation are required;
- The test results can be exported to Excel table and connected to the computer for viewing;
- The test result storage capacity is 5 million, supporting data storage and viewing;
- IP65 protection level;

Technical Specification

Model No.	TY-YH
ORP measurement range	-2000mV-2000mV
ORP Resolution	0.1mV
ORP Error Range	±10mV
PH measurement range	0-14PH
PH Resolution	0.1PH
PH Error Range	0.05PH
Temperature measurement range	5-60°C
Temperature Resolution	0.1°C
Temperature Error Range	±1°C
External power supply	DC 5V /2A

Laboratory Analytical Instruments



Product Overview

Soil nutrient analyzer is a professional instrument used to detect and analyze the content of various nutrients in the soil. The TY-TF04 scientific research-grade soil nutrient analyzer developed by our company has good matching. Users only need to provide pure water to complete the determination of nitrogen, phosphorus, potassium, organic matter, pH acidity and salt content, which greatly reduces the instrument operation process and quickly and accurately achieves the purpose of soil testing and fertilization formulation.



TY-TF04 Soil nutrient analyzer

Product Advantages

- The full-project soil fertilizer nutrient detector can detect soil and fertilizer, organic fertilizer (including foliar fertilizer, water-soluble fertilizer, spray fertilizer, etc.), quick-acting nitrogen, quick-acting phosphorus, effective potassium, total nitrogen, total phosphorus, total potassium, organic matter, pH, calcium, magnesium, sulfur, iron, manganese, boron, zinc, copper, chlorine, silicon and other trace elements and various heavy metals such as lead, chromium, cadmium, mercury, arsenic.
- The colorimetric tank adopts a single-channel design, without mechanical displacement and wear, and the optical path test positioning is accurate to ensure the accuracy of the measurement results.
- With the supporting expert fertilization system data, the target yield of more than 100 kinds of national agriculture, fruit trees, and cash crops can be scientifically calculated and recommended. fertilization amount.
- Full functions: full test items (all kinds of medicines can be purchased).
- Easy to operate, fast speed, the finished medicine is ready to use after opening the bottle, no configuration is required, and the user does not need to prepare any accessories.

Technical Specification

Model No.	TY-TF04
Range and resolution	0.001-9999
Repeatability error	≤0.05% (0.0005, potassium dichromate solution)
Instrument stability	The drift is less than 0.2% (0.003, transmittance measurement) within one hour.
Linear error	≤0.2% (0.002, copper sulfate detection)
Wavelength range:	Red light: 680±2nm; Blue light: 420±2nm; Green light: 510±2nm; Orange light: 590±4nm
PH value (acidity)	(1) Test range: 1~14 (2) Accuracy: 0.01 (3) Error: ±0.1
Salt content (conductivity)	(1) Test range: 0.01% to 1.00% (2) Relative error: ±5%
Moisture content	(1) Test range: 0-100% (2) Error less than 0.5%
Power supply	AC 220±22V DC 12V+5V



Product Overview

TY-890 BOD tester is a new instrument for the determination of biochemical oxygen demand by air pressure differential method. It can provide accurate results comparable to chemical dilution method. BOD tester has the characteristics of intuitive reading, clear biochemical reaction curve and easy to use and maintain, and is an ideal tool for work analysis. BOD tester can be widely used in environmental monitoring, petrochemical, medical and health, teaching and research departments to monitor water quality.



TY-890 BOD Quick test method

Product Advantages

- Mercury-free devices guarantee accurate BOD measurements;
- Automatic data collection and storage;
- Convenient button interface;
- Just press the button to print the display diagram directly;
- Input and output through the RS-232 interface;
- Sixteen sample parameters can be measured separately by independent channel characteristics;
- LCD graphical display continuously updated BOD test results and status;
- Electromagnetic stirrer continuously stirring to ensure that oxygen is added to the sample;
- Sample dilution is easy, and high range BOD can be measured;

Technical Specification

Model No.	TY-890
Measurement range	0~1000 mg/L
Test sample number	Six or eight samples at a time
accuracy	The BOD5 value of glucose-glutamate standard solution was in the range of 180 mg/L ~ 230 mg/L
Display:	Large screen LCD 6 or 8 channels display BOD5 value
culture temperature	20°C±1°C
working voltage	AC 220V±22V 50Hz±0.5Hz
power consumption	instrument ≤70W, thermostat ≤300W

Laboratory Analytical Instruments



Product Overview

TY-1800 handheld multi-parameter high-precision water quality tester, no chemical reagents, environmental protection without pollution, the use of high-precision digital electrodes, anti-interference ability, fast response, suitable for a variety of working environments, professional water quality tester system, instrument performance is stable, accurate measurement, wide measurement range, powerful function, simple operation is a customer in the field, The laboratory provides a handheld water quality testing system that integrates testing, monitoring, and data management. Multi-parameter high-precision water quality tester can be widely used in scientific research institutes, environmental monitoring, environmental engineering, rivers and lakes, waterworks, petrochemical, biopharmaceutical, photovoltaic energy, food and beverage, aquaculture and municipal water supply and drainage, as well as third-party testing and other industries.



TY-1800 Portable Water Analyzer (Sensor)

Product Advantages

- Integrated box-type equipment can simultaneously meet the detection of PH, dissolved oxygen, temperature, conductivity, turbidity, suspended matter and other items;
- 8 inch color touch screen, built-in thermal printer;
- Built-in large capacity rechargeable lithium battery, long standby time;
- Using new sensor technology, no need for reagents, no pollution, economic and convenient; The whole machine is designed according to artificial science, the appearance is popular and fashionable, easy to carry
- Can work in the field for a long time, Chinese interface switch, simple and fast operation;
- Built-in memory card can realize data saving and query;
- High precision full digital electrode, automatic temperature compensation, so as to achieve more stable and accurate measurement values;

Technical Specification

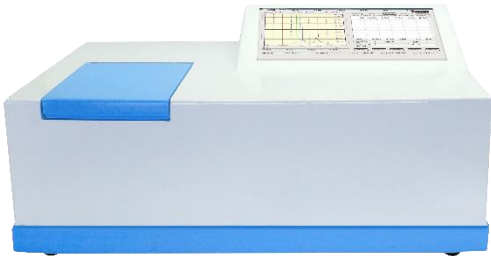
Model No.	TY-1800
Measurement item	PH, DO, temperature, Cond, SS, Turb
screen size	8 inch color touch screen
dual power supply	Built-in lithium battery, adapter DC12V
PH	0-14
PH automatic warming	0.0-80.0°C
PH resolution	0.001ph
PH accuracy	±0.05 ph
Conductivity measurement range	0.0-20ms/cm
Conductivity resolution	0.01us/cm
Conductivity accuracy	±5%
Conductivity automatic warming	0.0-60.0°C
temperature range	0.0- 60.0°C
Temperature accuracy	+0.5°C
Dissolved oxygen range	0 ~ 20.00 mg/L
Dissolved oxygen accuracy	±0.5 mg/L
Dissolved oxygen resolution	0.001 mg/L
Automatic heating of dissolved oxygen	0.0-50.0°C
Suspended matter measurement range	0-3000mg/L
Measurement accuracy of suspended matter	≤±5%
Suspended matter resolution	0.01 mg/L
Turbidity range	0-400 NTU
Turbidity accuracy	≤±3%
Turbidity resolution	0.1NTU
Save	1 million data
Print	Built-in thermal printer
port	USB port 4G communication module, GPS module (optional)
battery	Built-in large capacity lithium battery
Instrument size	432*332*180mm
environmental conditions	Temperature: 0 ~ 50°C Humidity: 20 ~ 80%
Net weight of instrument	3.5Kg



Product Overview

TY-25C infrared spectrophotometer uses tetrachloroethylene to extract oil substances in water, and then uses anhydrous sodium sulfate to isolate impurities and water, separate the solution of oil and tetrachloroethylene, and determine the oil content of the total extract. At the same time, the extraction liquid can be adsorbed with magnesium silicate, and the petroleum type can be determined after removing polar substances such as animal and plant oil. The total extract and petroleum contents were calculated by the absorbance A2930, A2960 and A3030 at the bands of 2930cm-1 (stretching vibration of C-H bonds in CH2 groups), 2960cm-1 (stretching vibration of C-H bonds in CH3 groups) and 3030cm-1 (stretching vibration of C-H bonds in aromatic rings), respectively It's OK. The content of animal and vegetable oils is calculated as the difference between the total extract and the petroleum content.

Infrared spectrophotometer is widely used to measure the oil content in surface water, groundwater, industrial wastewater, cooking fume, welding wire, welding rod, soil and solid.



TY-25C infrared spectroscopic oil meter

Product Advantages

- The instrument is measured by infrared spectrophotometry, which can accurately reflect the pollution degree of oil substances in the sample;
- Equipped with 7-inch color touch screen to realize visual intelligent guidance operation, making user operation simple and easy to learn;
- The host comes with a printer, which can directly print storage data and full spectrum scanning spectrum, which is convenient for recording and saving the results;
- With boot intelligent calibration, standard curve calibration and calibration coefficient calibration and other calibration methods, simplify the operation process, improve the measurement efficiency;
- First splitter after absorption, no mechanical cutting motion device, improve the stability and reliability of the instrument;
- The phase-locked amplifier circuit is used to enhance the signal-to-noise ratio and low detection limit of the instrument;
- Using tetrachloroethylene as extractant, cross-contamination between samples is eliminated, ensuring the safety of measurement and reliability of results;

Technical Specification

Model No.	TY-25C
Baseline drift	No drift (baseline drift eliminated by mechanical cutting)
Minimum detectable concentration	0.002mg/L (Oil concentration in water)
Maximum detectable concentration	100% pure oil (oil concentration in water)
Wavenumber range	3400cm-1 ~ 2400cm-1 (2940nm ~ 4167nm)
Wavenumber accuracy	±1cm-1
Wavenumber repeatability	±1cm-1
Absorbance range	0.0000 ~ 3.0000AU (i.e. transmittance 100 ~ 1%T)
Basic measuring range	0.00 ~ 800.00mg/L
repeatability	Relative standard deviation RSD < 0.8%(20-80mg /mL standard oil sample)
Linear correlation coefficient	R > 0.999
Sample analysis time	Full spectrum scan about 30 seconds
Fixed point multiple scanning	About 10 seconds
Non-dispersive infrared hair scanning	About 2 seconds
Blank solvent zero	Automatic, no need to adjust the full degree
Net weight of main engine	10kg
Use temperature and humidity	emperature range 5°C-35°C, humidity ≤80%
Dimensions of the main machine	450mm (L) ×330mm (W) ×160mm (H)

Laboratory Analytical Instruments



Product Overview

TY8006A visible multi-parameter water quality analyzer, simple structure, stable and reliable, accurate reading. The continuous spectrum with the wavelength range of 320-1100nm can qualitatively and quantitatively analyze the sample substances in the visible and near-infrared spectral regions; the instrument has more than 60 built-in measurement procedures, including CODcr, ammonia nitrogen, total phosphorus, total nitrogen, residual chlorine, Heavy metals and many other testing items.

Principle: multi-parameter water quality analyzer of instruments is based on Lambert-Beer's law, and substances have selective absorption of light. Under the excitation of light, an absorption effect occurs. Different substances have their own absorption spectra. When a monochromatic light passing through the solution, its energy will be absorbed and weakened, and the degree of weakening of light energy is proportional to the concentration of the substance.



TY8006A Multi-parameter water quality analyzer

Product Advantages

- The photometer software system and the water quality quick measurement software system coexist, which can be selected according to the user experience ;
- Internal system working status self-check, and automatic correction wavelength/wavelength automatic positioning/color filter automatic switching/light source automatic switching when the instrument is turned on ;
- 1024*768 pixel 8-inch color touch screen, full Chinese operation menu ;
- App with built-in water quality test standard curve;
- Wavelength Calibration: Automatic Calibration ;
- Batch quantity: 6/16/25 samples (optional) ;
- Intelligent PID temperature control technology and double anti-over-temperature protection system, heating is safe, uniform and fast;
- Light source: Imported long-life tungsten lamp ;
- With data storage function, it can store 2000 sets of data ;
- Built-in micro-printer, and print the experimental results ;
- Data communication interface: USB, RS-232;

Technical Specification

Model No.	TY8006A
Wavelength range	320-1100nm
Wavelength Accuracy	±1nm
Wavelength repeatability	≤0.2nm
Photometric accuracy	±0.5%T
Photometric repeatability	≤0.2%T
Drift	≤0.001A/h
Spectral Bandwidth	4nm
Photometric display range	0-200%T, -0.3-3A, 0-9999C
Noise	±0.001Abs(500nm)
Stray light	≤0.1%T
Operating environment	10~40C, maximum 80% humidity, no condensation
Power requirements	100-240V/50-60HZ
Size	430mm×320mm×180mm
Weight	10kg

Laboratory Analytical Instruments

Measurement item and range

No.	Measurement item	Measurement range	Measurement deviation	Measurem ent lower limit
1	COD（lower measurement range）	0-150mg/L	≤±5%	5
2	COD（Middle measurement range）	150-1500mg/L	≤±5%	
3	COD（High measurement range）	1500-15000mg/L	≤±5%	
4	CODL high chlorine	0-150mg/L	≤±5%	5
5	CODM high chlorine	150-1500mg/L	≤±5%	
6	CODH high chlorine	1500-15000mg/L	≤±5%	
7	Manganese method COD（Low measurement range）	0-5mg/L	≤±5%	0.1
8	Ammonia nitrogen（Low measurement range）	0-5mg/L	≤±3%	0.05
	Ammonia nitrogen（High measurement range）	5-50mg/L	≤±3%	
9	Total phosphorus（Low measurement range）	0-2mg/L	≤±5%	0.02
	Total phosphorus（High measurement range）	2-20mg/L	≤±5%	
10	Total nitrogen	0-20mg/L	≤±5%	0.5
		20-100mg/L	≤±5%	
11	Total nitrogen (Single-tube)	0-20mg/L	≤±8%	0.5
		20-100mg/L	≤±8%	
12	Residual chlorine	0-2mg/L	≤±3%	0.1
		2-10mg/L	≤±3%	
13	Total chlorine	0-2mg/L	≤±3%	0.1
		2-10mg/L	≤±3%	
14	Carbon dioxide	0-2mg/L	≤±5%	0.05
		2-20mg/L	≤±5%	
15	Sulfate	0-200mg/L	≤±5%	5
16	Nitrate nitrogen	0-10mg/L	≤±5%	0.5
17	Phosphate	0-2mg/L	≤±5%	0.02
		2-20mg/L	≤±5%	
18	Nitrite nitrogen	0-1mg/L	≤±5%	0.02
		1-5mg/L	≤±5%	
19	Sulfide	0-1mg/L	≤±5%	0.01
20	Fluoride	0-2mg/L	≤±5%	0.02
21	Cyanide	0-0.5mg/L	≤±5%	0.004
22	formaldehyde	0-2.5mg/L	≤±5%	0.05
23	Volatile phenol	0-5mg/L	≤±5%	0.1
		5-10mg/L	≤±5%	

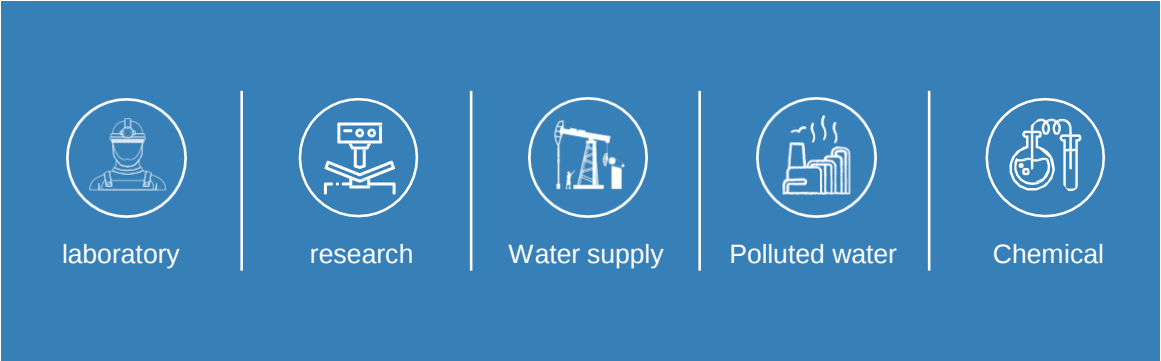
24	Hydrazine	0-0.5mg/L	≤±5%	0.01
25	Aniline compounds	0-1mg/L	≤±5%	0.02
		1-5mg/L	≤±5%	
26	Silica	0-5mg/L	≤±5%	0.1
27	Total alkalinity	0-100mg/L	≤±5%	0.01
		100-1000mg/L	≤±5%	
28	Total hardness	0-5mg/L	≤±5%	0.05
		5-200mg/L	≤±5%	
29	Chloride (chloride ion)	0-10mg/L	≤±5%	0.05
		10-100mg/L	≤±5%	
30	Copper	0-1mg/L	≤±5%	0.05
		1-10mg/L	≤±5%	
31	Zinc	0-5mg/L	≤±5%	0.05
32	Nickel	0-4mg/L	≤±5%	0.1
33	Iron	0-5mg/L	≤±5%	0.01
		5-25mg/L	≤±5%	
34	Hexavalent chromium	0-1mg/L	≤±5%	0.01
35	Cadmium	0-0.5mg/L	≤±5%	0.05
36	Manganese	0-0.1mg/L	≤±5%	0.05
		0.1-1mg/L	≤±5%	
37	Total chromium	0-1mg/L	≤±5%	0.01
38	Aluminum	0-0.5mg/L	≤±5%	0.01
		0.5-5mg/L	≤±5%	
39	Silver	0-1mg/L	≤±5%	0.05
40	Arsenic	0-0.1mg/L	≤±5%	0.005
		0.1-0.5mg/L	≤±5%	
41	Antimony	0-10mg/L	≤±5%	0.1
42	HG	0-0.5mg/L	≤±5%	0.002
43	Lead	0-0.5mg/L	≤±5%	0.01
44	Chroma	0-500PCU	≤±3%	5
45	Turbidity	0-100NTU	≤±3%	0.5
		100-500NTU	≤±3%	
46	Suspended matter	0-100mg/L	≤±3%	5
		100-1000mg/L	≤±3%	
47	Dissolved oxygen	0-10mg/L	≤±5%	0.1
48	Anionic surfactant	0-1mg/L	≤±5%	0.01

APPLICATION SCENARIOS



More Applications

Scientific research institutes, experimental analysis, medicine, environmental monitoring, environmental engineering, rivers and lakes, water plants, petrochemicals, biopharmaceuticals, food and beverages, and third-party testing and other industries.



Rivers and Lakes



Experimental analysis



Scientific research and teaching



drinking water

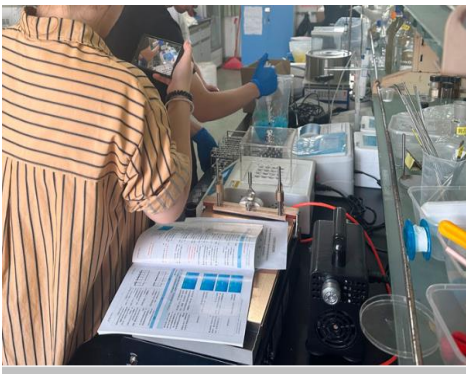
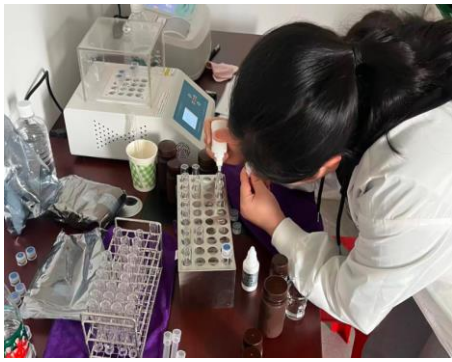


Wastewater Treatment



Biopharmaceuticals

■ Case Show



■ Produc on

