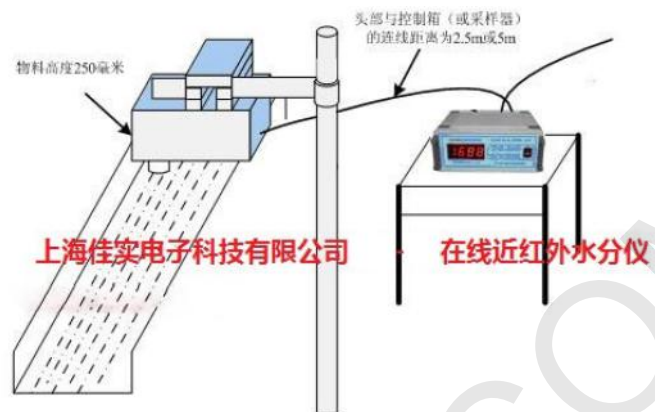
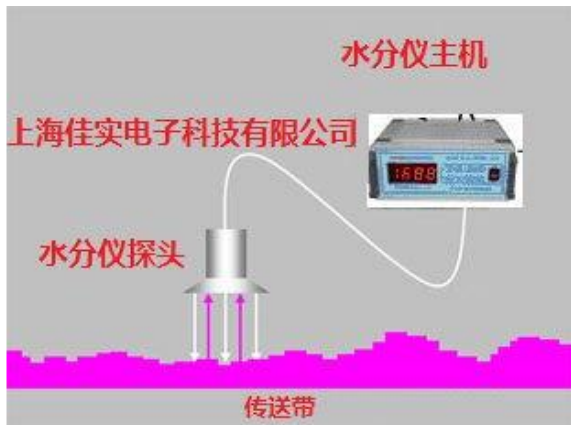


# Online Moisture Meter



near-infrared online moisture meter with non-contact measurement can be used in the laboratory and also be installed on the production line, it is safe and reliable, without heating, quickly displays the results from the measured surface 15cm to 40cm to test moisture, the moisture measurement resolution is 0.01%, moisture measurement range is from 0 to 100%, it can output 4 ~ 20mA current signal, optional RS485 module is connected to the computer.

near-infrared moisture meter is the world's advanced non-contact online moisture meter, it is durable and of high sensitivity, its measurement accuracy is almost independent of the object color, density, particle impact. near-infrared moisture meter using the latest technology in moisture measurement, the probe is waterproof and dustproof, excellent rugged enclosure resistant to accidental impact, the machine can be long-term working in the harsh environment, it can be installed in a variety of ways, with easy operation, high precision and wide range of applications.

near-infrared moisture meter has established a leading position in the field of industry, determination of moisture content. We are specialized in near-infrared material and component detection technology and products, semiconductor lighting technology and product development production and sales of high-tech enterprises, the near-infrared Engineering Center. The company's R&D and production of near-infrared materials online testing equipment products and industrial process control systems are widely applied to paper, ceramics, pharmaceutical, chemical, food, cotton, building materials, printing, tobacco and other industries, has reached the international advanced level. The company's products with excellent quality brand sold throughout 20 provinces, municipalities and autonomous regions, and have entered the international market, the company has a set of electronic, optical, software, mechanical and other technical fields experienced and innovative team of engineers.

near-infrared online moisture analyzer is a non-contact moisture tester.

## Technical parameters:

Measuring system: near-infrared light reflection principle

Measuring range: 0-100% (based on the product)

Measurement resolution: 0.01% (depending on the product)

Measurement area: 60mm diameter (300mm from the substance of the probe)

Measure the distance :50-400mm

Measurement speed: <10ms

Calibration adjustment: quick calibration; pre-calibration Needless to day-to-day calibration.

Filtering: linear or exponential (1-99 seconds)

Analog output: 4 (0) - 20 mA (for the connected PLC or DCS system)

Communication output: optional RS485 module (connected to the computer with MODBUS protocol)

Weight: 18kg (kg)

Power Requirements: 220V

Moisture measurement in industrial production is critical. Manufacturers can constantly adjust the moisture to maintain the quality of the product. If the product is too wet or too dry, the process will be followed problems. The product processing moisture is maintained at a certain range of accuracy, can effectively improve product quality and increase productivity and saving costs.

near-infrared online moisture meter can maximum moisture detection. With the latest technology, near-infrared moisture detector is completely insensitive to the outside light. It provides users with the highest level of accuracy fast detection speed. In addition, the new design of SH-8B near-infrared online moisture meter sensor has higher reliability. Finally, the pre-calibrated probe allows the user to quickly install the machine within minutes.

The working principle of the near-infrared moisture analyzer:

Molecular structure, such as the hydrogen-oxygen bond of the H<sub>2</sub>O absorbs specific wavelengths of near-infrared (1940nm band). In this specific wavelength, the reflected near-infrared absorption is inversely proportional to the energy of water molecules in the materials. According to the loss of energy, the meter can calculate the moisture content of the material.

Near-infrared measurement technique is a non-destructive, non-contact real-time measurement technology. near-infrared online moisture meter emits infrared light, the light is paralleled by a lens, the disc and mirror reflection to the material under test. Wherein a part of the infrared light is absorbed, another portion of the infrared light scattering focused by the concave mirror to the photoelectric conversion element, the light receiving element converting an optical signal into an electrical signal. The size of this signal with the moisture content of the material under test, the output signal is amplified, converted into the unified standard signal for display, recording, controlling, or transmitted to the computer system performs the correlation process.

near-infrared online moisture meter is with full white light technology, the detection signal can penetrate the surface of the material 2mm, without purging device and environmental impact quickly, real-time dynamic measurements can ensure the instrument measurement stability.

### **1, The principle is simple and advanced:**

near-infrared online moisture meter with the original light irradiation materials, thus making 100% of the infrared exposure to the material.

### **2, Strong penetrating**

near-infrared online infrared moisture meter can better reflect the true moisture content of the material, and also more accurate.

### **3, Strong waterproof**

near-infrared moisture meter is designed to protect the electronics against moisture.

### **4, External heat spreaders capacity strong**

sensor external is designed to increase the surface area and make the temperature quickly dispersed.

### **5, Anti-vibration**

near-infrared moisture meter sensor using two fixed mirror, they will not jitter with the sensor can measure a relatively large vibration amplitude of the moisture content of materials.

**6, Optional MODBUS RS485 module** ensure the moisture and computer communications, real-time monitoring.

### **7, Limit alarm**

When the water is too high or too low, it will send an alarm signal to inform the water quality control system.

### **Product Application**

Wood and paper industry: wood, wood chips, MDF, HDF, OSB board, fibreboard, corrugated paper, printing paper, paper.

Construction industry: soil, bricks, gypsum board, gypsum powder, ceramic materials, ceramic tile, cement, sand.

Other industries: textiles, glass fibers, binders.

Metallurgy (minerals) industry: sintering mixtures, coal, coke powder, peat, copper, nickel ore, bauxite ore, bentonite.

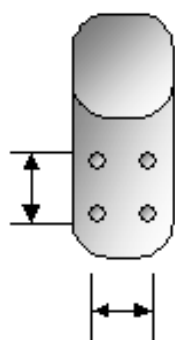
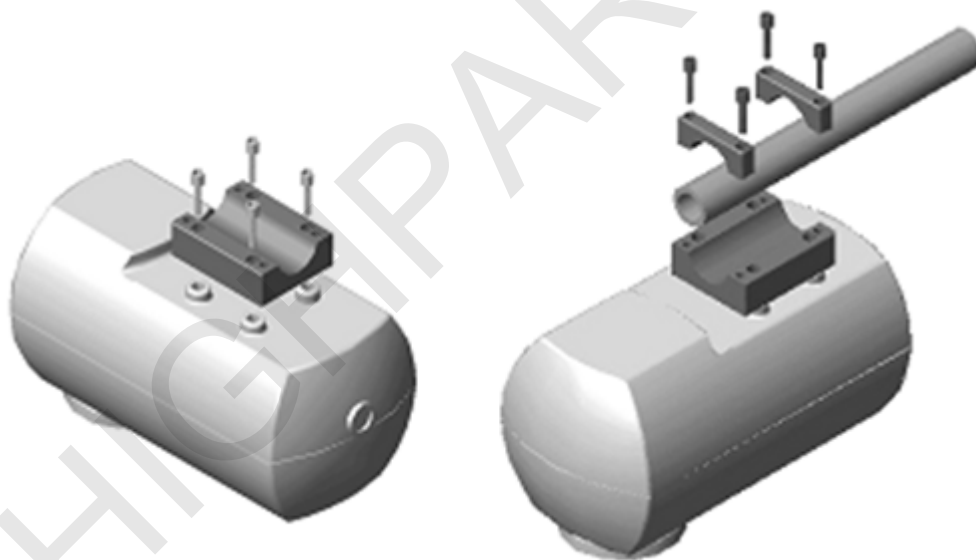
Chemical industry: PVB film, rubber debris, rubber additives, PVC powder, cellulose acetate, detergent, washing powder, fertilizer, laminated glass, pharmaceutical and so on.

Food industry: corn starch, potato starch, feed, milk powder, coffee, cocoa, chocolate, sugar, pulp, mashed potatoes, potato chips, biscuits, puffed food, dehydrated food, alfalfa, sweet almond, tea, beans.

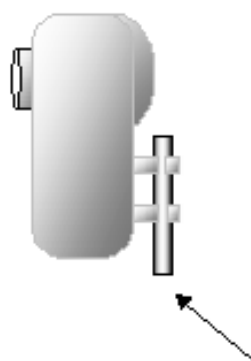
The tobacco industry: silk, sheet, Dayefukao, expansion, Runye, cigar filler, chewing tobacco.



The distance from probe to the surface of the material is from 150mm to 400mm



60 x 60



直径 34~42 (mm)



**دقیق پرتو**

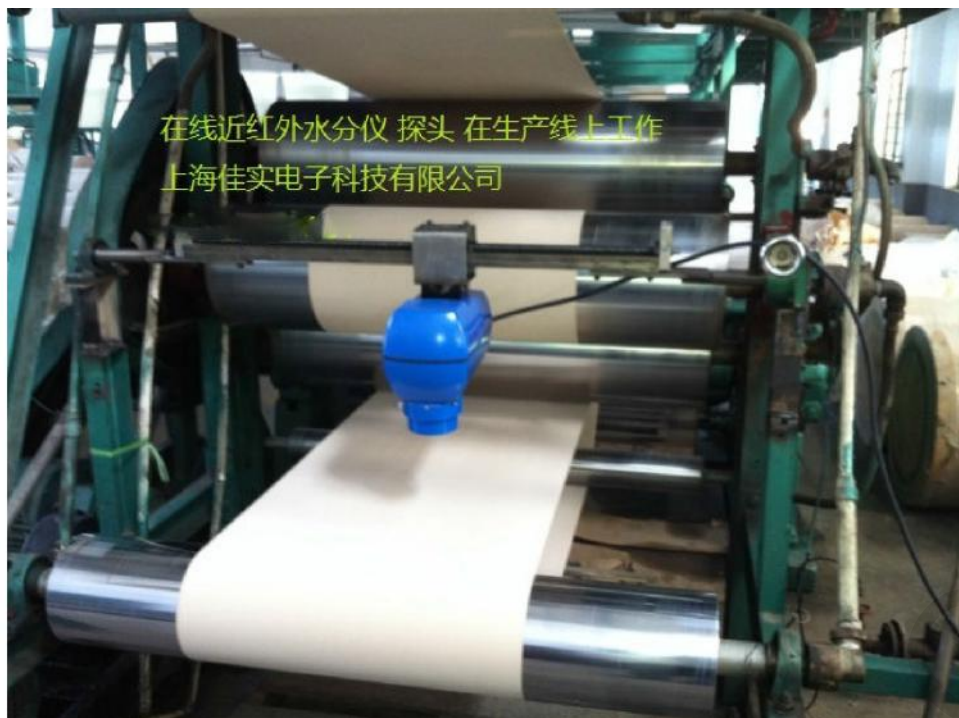
**DAGHIGH PARTO**

Laboratory Test Equipment

شرکت دقیق پرتو  
تامین کننده تجهیزات آزمایشگاهی و کنترل کیفی

۰۲۱-۶۶۹۳۷۲۱۴





在线近红外水分仪 探头 在生产线上工作  
上海佳实电子科技有限公司



上海佳实电子科技有限公司

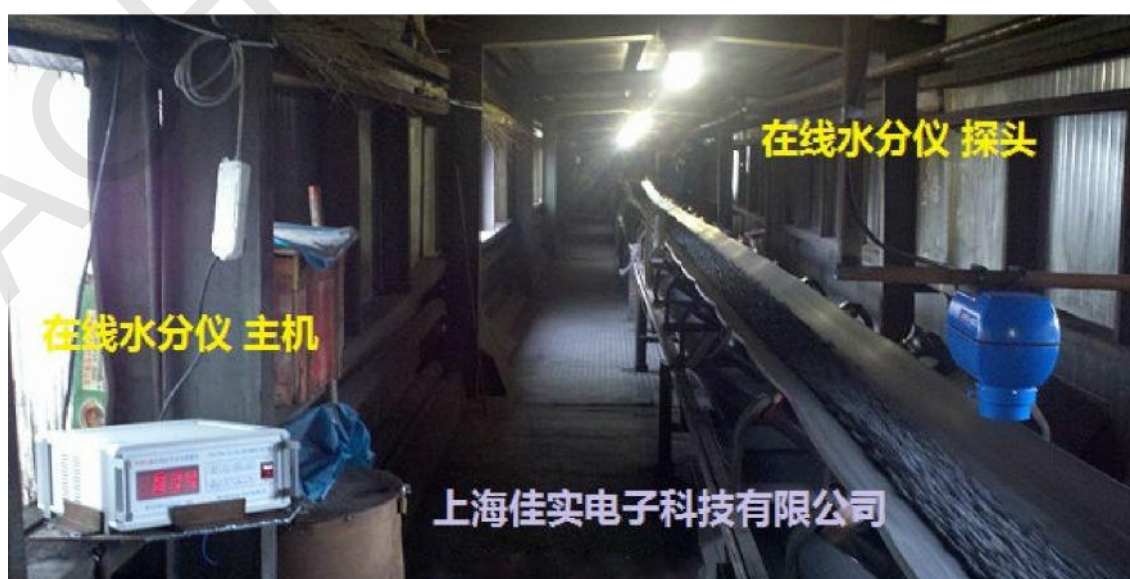
SH-8B 在线红外水分测量仪

MOISTURE TESTING INSTRUMENT ONLINE

88.28

MOISTURE DISPLAY H10%

上海佳实电子科技有限公司



在线水分仪 主机

在线水分仪 探头

上海佳实电子科技有限公司



دقیق پرتو

DAGHIGH PARTO

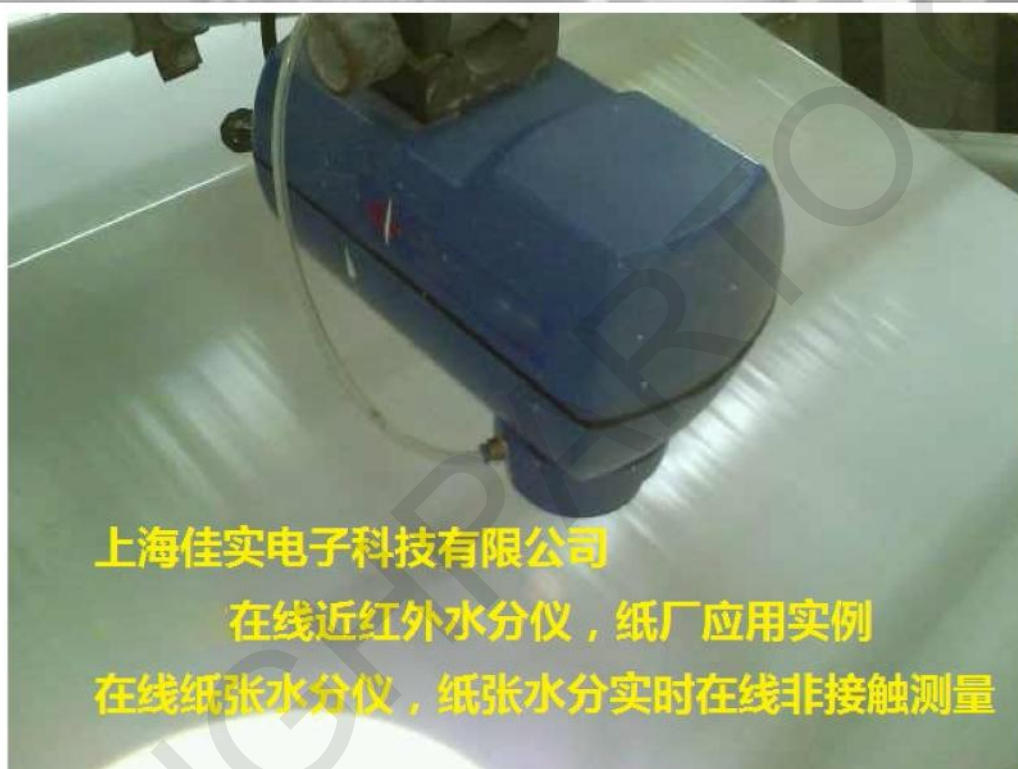
Laboratory Test Equipment

شرکت دقیق پرتو

تامین کننده تجهیزات آزمایشگاهی و کنترل کیفی

۰۲۱-۶۶۹۳۷۲۱۴





**دقیق پرتو**  
**DAGHIGH PARTO**  
Laboratory Test Equipment

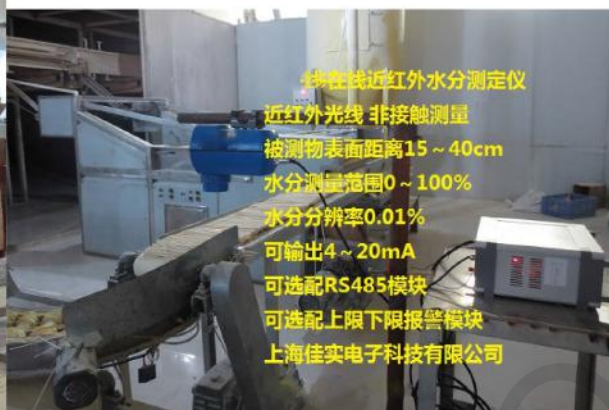
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۰۲۱-۶۶۹۳۷۲۱۴



上海佳实电子科技有限公司

在线近红外水分测定仪  
面条生产线水分检测的应用



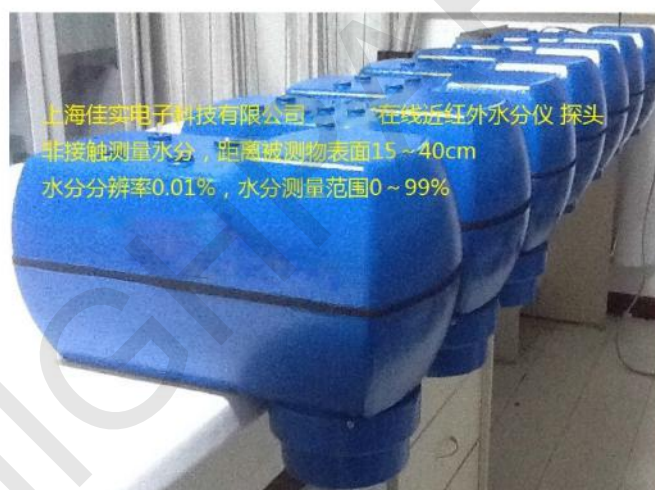
在线近红外水分测定仪  
近红外光线 非接触测量  
被测物表面距离15~40cm  
水分测量范围0~100%  
水分分辨率0.01%  
可输出4~20mA  
可选配RS485模块  
可选配上下限报警模块  
上海佳实电子科技有限公司



上海佳实电子科技有限公司

近红外水分仪 主机

近红外水分仪 探头



上海佳实电子科技有限公司

在线近红外水分仪 探头

非接触测量水分，距离被测物表面15~40cm  
水分分辨率0.01%，水分测量范围0~99%



دقیق پرتو

DAGHIGH PARTO

Laboratory Test Equipment

شرکت دقیق پرتو

تامین کننده تجهیزات آزمایشگاهی و کنترل کیفی

۰۲۱-۶۶۹۳۷۲۱۴