

Infrared online moisture analyzer, non-contact, continuous, real-time, on-line measuring moisture. The distance is 20cm-40cm, high accuracy, wide range, and provides 4-20mA current signal, automated control,

Suitable for: food, metallurgy, tobacco, wood, paper processing, building materials, chemicals, mining, pharmaceutical, energy field.

Principle:

It is the use of water molecules on the infrared spectral absorption characteristics, to measure the moisture content of the measured object.

IR bands (0.78 ~ 2.5 μ m wavelength range of electromagnetic waves) absorption of water molecules is not the average, a strong wavelength at a low wavelength in the other. Use of this feature, infrared moisture analyzer emit different wavelengths of infrared light (5-beam, 6-beam, 8-beam, 10 beams), and receives the reflected signal measured material, to calculate the moisture content of the measured object.

Features:

1. Fast measurements:

With long-life high-speed brushless motor, imported high response infrared sensors, information processing chip FPGA + DSP + ARM9 combination, to ensure the real-time data acquisition, improve measurement precision and stability.

2. Reliability:

With dual optical detectors, the optical system for monitoring and compensation, moisture measurement from the sensor to ensure effects of aging.

3. Non-contact and fast response

Online fast continuous measurement and non-contact measurement, the measured object can fluctuate between 20-40cm, online dynamic real-time detection, to achieve a real-time control of product moisture content.

4. Stable performance, high precision

5-beam infrared moisture analyzer, its stability compared four beam and six beam greatly improved, in order to ensure the measurement more accurate and more stable.

5. Easy to install, easy to operate

Instrument easy installation, using a predetermined calibration, only need fix the intercept (zero) to complete the demarcation. Using single-chip digital operation, easy to operate.

Main Technical parameters:

Measuring range	0-99% (can OEM)
Measurement resolution	0.01%
Measuring accuracy	0.1%FS-0.5%FS
Repeatability	0.1%
Static accuracy	0.1%

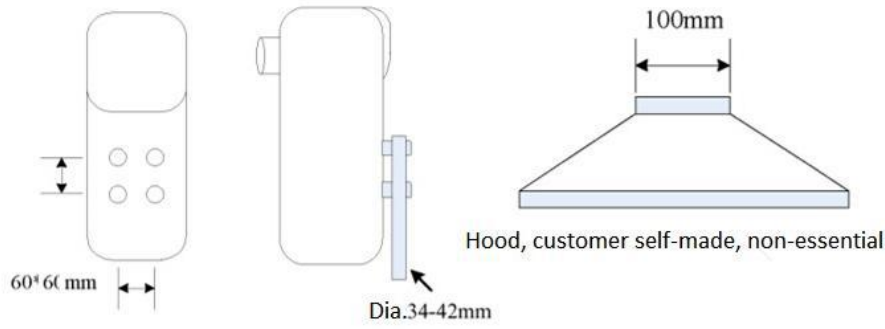
Light Diameter	40mm
Light beam	5
Infrared wavelength	1940nm
Infrared bandwidth	±50nm
Filtering range	0-2.5%
Measuring channel	10
Current signal	4-20mA
Upper and lower control	Self-edit by end user
Measuring time	0-60s
Sampling frequency	125 ms / time
Measuring distance	250mm±100mm
Measuring thickness	0.1-0.3mm
Display	LED 7 digits display
Cable length between probe and display	5m
I/O interface of probe	7 pin aviation socket, 10 core aviation socket
I/O interface of display device	3-core cable, 25 holes D-type socket, 4-core cable, 3-core cable(with 7-core aerial socket)
Power	220V/50HZ, 100W
Operation humidity	≤90%
Operation temperature	0-50℃
Light interference	Not affected by external ambient light changes, no hood required for the probe
Temperature effect	With temperature automatic compensation is basically not affected by external temperature changes
Gross weight	17.5kg
Packing size	440*340*510mm

1. The measured object in a dryer

Choose a place which the measured object piled most, open a hole in the wall, and replaced with transparent glass, make a bouquet of light into the dryer, see the pictures.

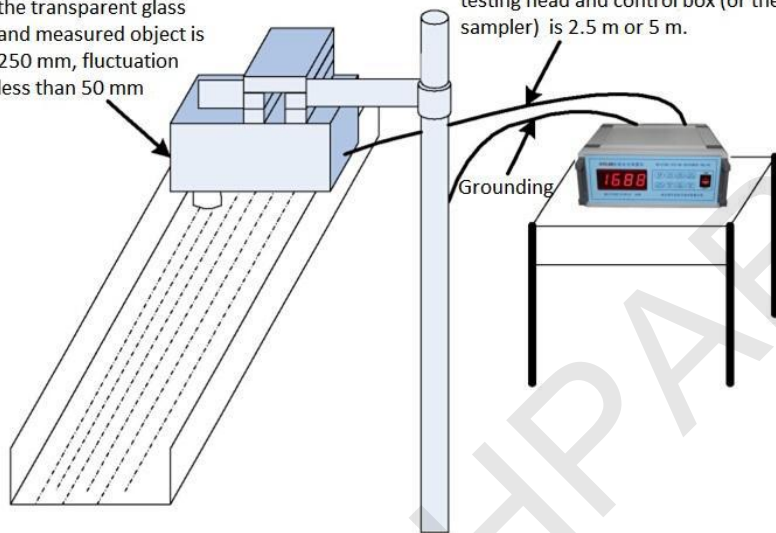


2.

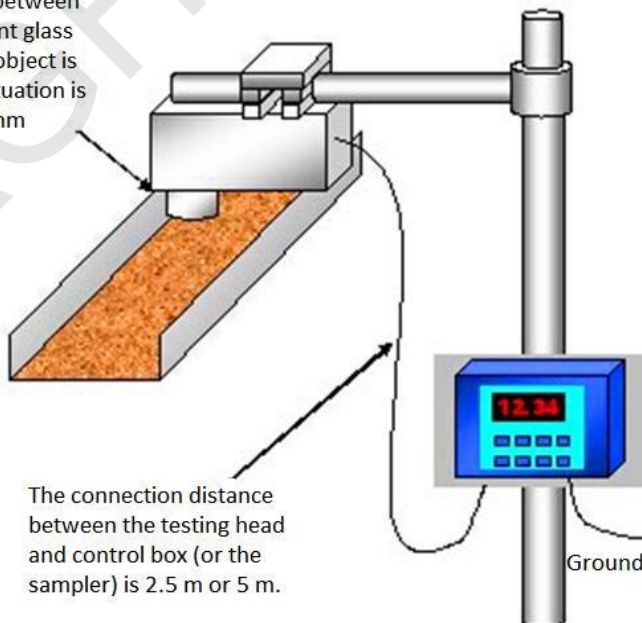


The distance between the transparent glass and measured object is 250 mm, fluctuation less than 50 mm

The connection distance between the testing head and control box (or the sampler) is 2.5 m or 5 m.



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دقیق پرتو

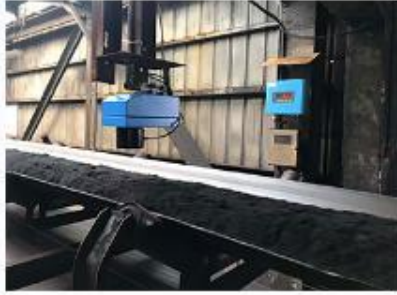
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Laboratory Test Equipment

شرکت دقیق پرتو

تامین کننده تجهیزات آزمایشگاهی و کنترل کیفی

۰۲۱-۶۶۹۳۷۲۱۴



testing for coal

testing for Bran



tesing for Lees



testing for
body powder

testing for
Citric acid

