

SKZ111J Infrared Online Moisture Analyzer



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, **using near-infrared light**

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 (4-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

8-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.

Technical parameters:

1. Measuring range :0-99% (can according to customer demand)
2. Measurement resolution: 0.01%
3. Measuring distance :20-40cm
4. Light Diameter: 10cm
5. Current signal :4-20mA
6. Power supply: 220V
7. Operating humidity: less than 90%
8. GW: 17KG
9. Packing size: 540 x 445 x 450mm

Pictures for reference:



The display meter





The display meter and the probe



Rear of the meter and the connection

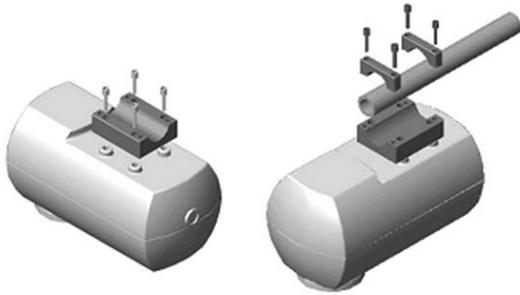


Packages

Installation drawings:

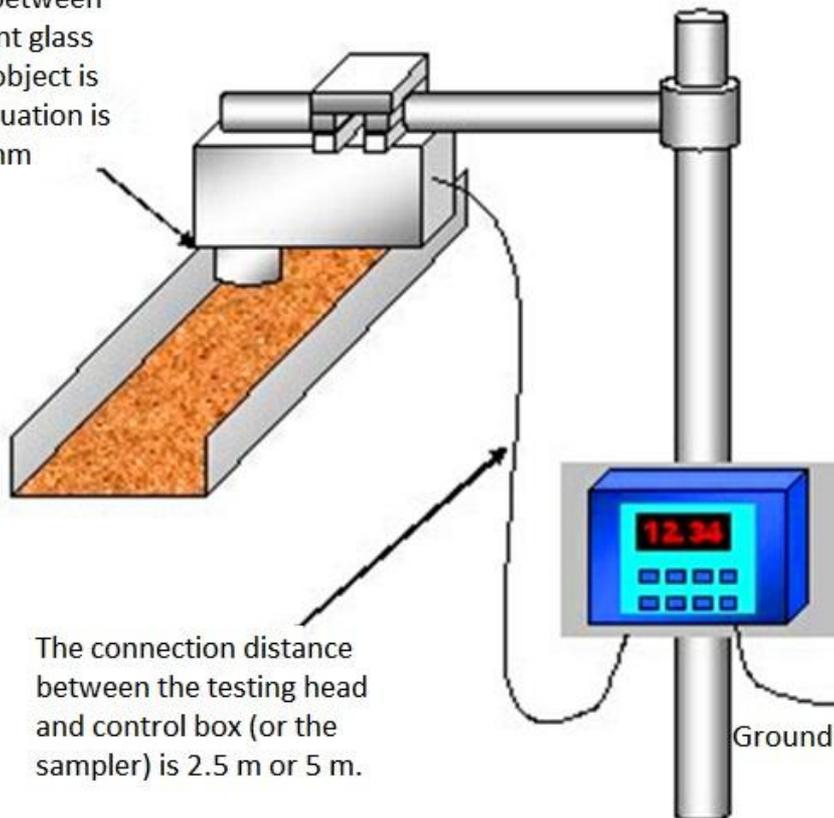
1. If measured on the Conveyor:

1), installation of test probe:



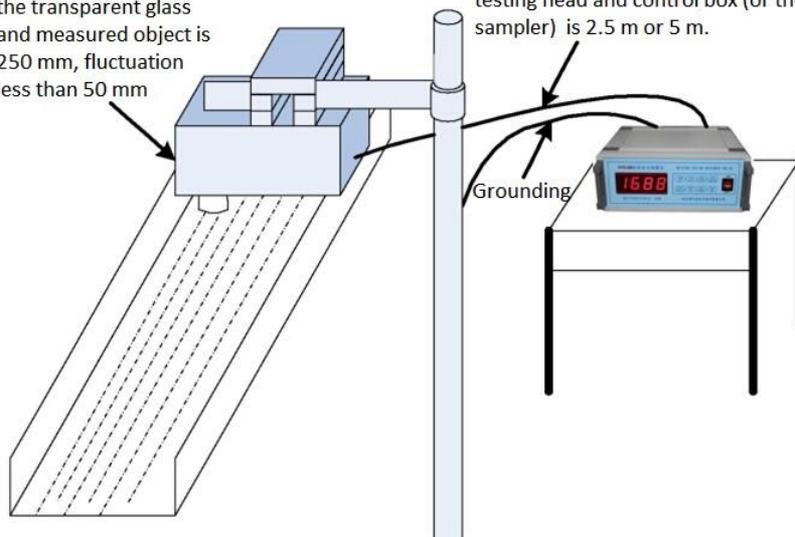
2). Installation of the control box and connection:

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



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.



2. If measured inner the 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.



Application as examples:

