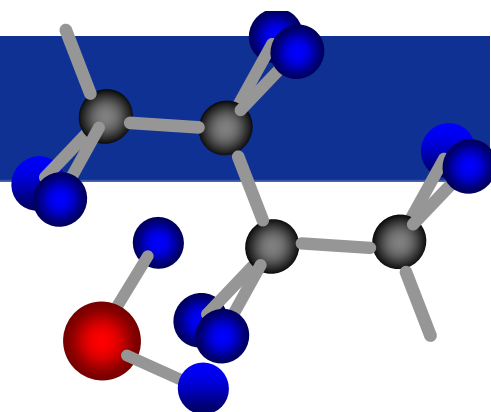


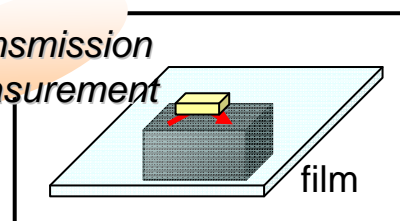
# The mirror-reflection type Thickness meter / Moisture meter ***RX-200***



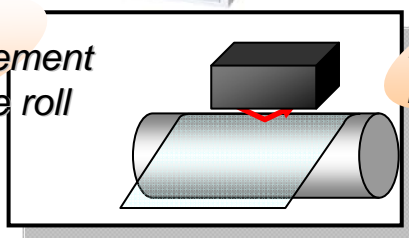
The standard online model of the mirror reflection p-polarized light type  
Reliable measurement reducing errors caused by surface reflection



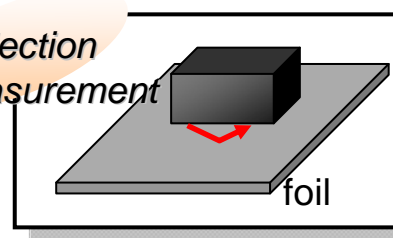
*Transmission  
measurement*



*Measurement  
upon the roll*



*Reflection  
measurement*



## Application examples

- Plastic film thickness (PET • PP • PE • PI • PVA and more...) and multi layer films
- Optical film (Retarder film • Polarize film • Protect film • Low-reflection film and more...)
- Various organic coatings on metallic surfaces
- Water based coatings on plastic film
- Film moisture

## Features

### ■ The mirror-reflection type standard model applicable to multiple measurement targets including transparent materials and metal surface

The adoption of the mirror reflection type light path enables the measurement of both transparent films and coats on metal surface by using the same single model.

### ■ Alternative measurement of coated layer and middle layer is available.

Usable light wavelengths are selectable, depending on measurement-target layers and components.

### ■ Outstanding measurement accuracy

Kurabo's unique p-polarization method enables high correlativity even in cases of thin films and narrow spectra.

### ■ Noncontact/online measurement using "safe light" has been realized.

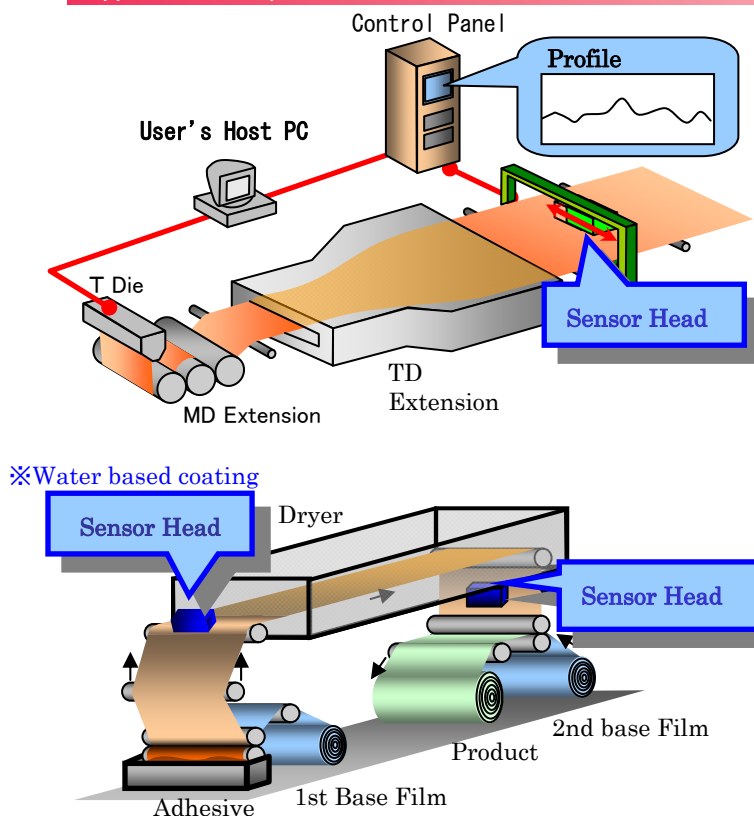
The RX-200, using the infrared method, is safer and easier to operate, compared to the fluorescent X-ray method.

### ■ High response speed and long-term stability

The minimum response speed of approx. 50m sec never overlooks even a slight variation in thickness. In addition, because the RX-200 uses three wavelengths photometry, it assures long-term accuracy against the ambient environment and/or changes in the system.

# RX-200

## Application example



When the test object receives infrared radiation, it generates an infrared absorption phenomenon corresponding to the film thickness or the amount of coating adhesion.

By calculating the strength of this absorption via the sensor, it becomes possible to measure film thickness and the amount of coating adhesion based on the calibration curves previously obtained.

Furthermore, with Kurabo's unique p-polarization incident beam method which reduces measurement error due to surface reflection and interfacial multiple reflection, the RX-200 provides the ideal hardware for the infrared thickness meter.



## Specifications

Measurement specifications	
Photometric type	Infrared absorption spectroscopy
Spectroscopy	Rotating filter (Six filters can be mounted.)
Measuring distance	25mm (from the lower surface of the main unit)
Measurement area	5 × 8 mm (oval)
Main unit specifications	
Sensor head	Outer dimensions: 230(W) × 134(D) × 90(H) (excluding protruding parts)
	Weight: 3.3kg
Relay unit	Outer dimensions: 250(W) × 140(D) × 113(H) (excluding protruding parts)
	Weight: 3kg
	Power supply: 100VAC ± 10% 50/60Hz 200VA
Data processing unit	Outside dimensions: 275(W) × 300(D) × 165(H) (excluding protruding parts)
	Weight: 6kg
	Power supply: 100VAC ± 10% 50/60Hz 200VA
External output	Selectable from Analog 0 – 10V or 4-20mA (preset before shipment)
Operating temperature	5 – 40 deg. C (No dew condensation. Air purge is an essential condition under ambient conditions of 35 deg. C.)



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