

Measure online / continuously the ultra thin film under 10µm!

Infrared Ultra thin Thickness Meter is a contact / online model thickness meter that can continuous / high sensitivity measure the film and coating paint under 10µm.

FEATURES

- Adopt P polarized light and high sensitivity optics By eliminating the surface reflectance, it realizes the high accuracy / high sensitivity measurement.
- Output updating cycle 28ms, high-speed measurement

Real time measurement on the production line.

- Extend the measuring distance Set the measuring distance as 50mm (our current model 25mm) to reduce the effect of the fluctuating measuring distance.
- Load self-diagnostic function Output self-diagnostic and easy maintenance.
- Prepare Setting display unit and Software package RS485 is standard equipped. Communicates with the setting display unit and digital display the measured value, operates various setting, multi-calculation function and alarm. Software Package for the PC is also optionally prepared.

APPLICATIONS

• Film

- Measuring the thickness of ultrathin film.
- Measuring the thickness of solvent coating / resin
 adhesion
- Metal
- Measuring the thickness of organic film coating/ oiling on the metal plate.
- Measuring the thickness of corrosion film / insulating film on the steel plate.



Detector



Setting display unit

- Detector
 IRMT01
- Setting Display Unit IRGMEG3

— Communication Interface

- R : RS232C
 - (standard)
- A : RS422A
- S : RS485



■ CONFIGURATION



*Used when measuring film

■ GENERAL SPECIFICATIONS

EXTERNAL DIMENSIONS

Measuring g

Detector

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320

Detector Model: IRMT01 Measuring system: Infrared ray 3 wavelengths, P polarized light Light source: Tungsten lamp Measuring area: Approx. 12 x 20 mm (at measuring distance 50 mm) RS485 (MODBUS) Communications: Output renewal cycle: 28ms 0 to 40°C Working temperature: Power supply: 24V DC Power consumption: Max. 33VA Connection: Power supply, single-line: terminal connection Aluminum casting Casing: Weight: Approx. 7kg Mounting: Bolt suspension method with 4 pieces of M8 bolts Protection structure: Dust proof, water proof (conform to IP65)

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Purge air inlet, Air horse Outer diameter $\phi 6$

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SOFTWARE PACKAGE IR-WEF2

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Main screen

Measured data digital display, trend display, alarm display, status display.

Setup screen

Set the selected variety of upper and lower limit/decimal points/ calibration data register/switch/ communication setting.

Calibration curve screen

Creates the calibration curve and check the calibration data.

• Setting display

Model:	IRGMEG3
Input signal :	RS485
Output signal:	Analog output:
	4 to 20mA DC, 2output, Load resistance less
	than 500Ω
	Communication output:
	Select one from RS232C, RS422A or RS485
Display:	Measured data (LED 5-digit), Detector No., CH
	No., Parameter setup
Working temperature:	0 to 50°C
Power supply:	100 to 240V AC 50/60HZ
Power consumption:	Max. 15VA
Connection:	Power supply, signal-line: terminal connection
Weight:	Approx. 0.6 kg
CE marking:	IRGMEG3R (RS232C output model) only
	EMC directive EN61326-1 Class A
	Low voltage directive EN61010-1,
	EN61010-2-030
	RoHS directive EN50581

•Setting display unit



Unit: mm

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Mounting holes (4 points, M8)

Unit: mm