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PRODUCT SPECIFICATIONS

Thermo Scientific RM 200 CM, RM 200 PL and RM 302 ES strip thickness gauges

Thermo Scientific™ strip thickness gauges demonstrate excellence in non-contact thickness measurement. The flexible architecture of these systems allow for single, dual or triple-point measurements, and with a variety of options can verify your prime product quality from coil head to tail giving you the exact cross-profile information your customers need.

Features

- High-efficiency detectors
- Rugged C-frame with electric drive
- Optional data archiving system
- Host computer interface link available
- Alloy influence compensation (AIC) available

Applications

- Cold rolling mills
- Reversing rolling mills (dual configuration)
- Tension levelers
- Pickling, annealing, shearing and inspection lines
- Cut-to-length shearing lines
- High-performance processing lines
- Tandem mills
- Entry/exit of galvanizing lines

Thermo Scientific RM 200 CM strip thickness gauge

The RM 200 CM strip thickness gauge provides a precise, high-speed non-contact measurement of strip thickness in a robust frame specifically designed for the cold mill environment.

Thermo Scientific RM 200 PL strip thickness gauge

The RM 200 PL strip thickness gauge employs the same high speed, reliable sensors as the RM 200 CM strip thickness gauge, but is housed in a cost effective frame built for process lines.

Both systems are supplied with gamma ray measuring heads to provide inexpensive, reliable thickness measurement in the centerline of the strip. These systems are designed to operate with minimum maintenance in the most demanding environments. Both versions are also available in a dual configuration, which makes the system very cost effective for reversing cold mill applications or processing lines with dual payoff reels.

Thermo Scientific RM 302 ES strip thickness gauge

The RM 302 ES simultaneous triple-spot thickness gauge has been developed for use in a variety of applications. The C-frame is equipped with three measuring heads. The sensor in the middle obtains the thickness of the strip center, and the two sensors placed on the outside obtain the edge thickness.

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The sensors at the edges can traverse between edge and center to measure the complete edge cross profile. They can also be positioned at the relevant edge point and together with the center sensor can carry out a continuous triple-spot measurement.

The high efficiency detectors and special source design permit a measurement resolution of less than 12 mm (0.47 in) in the crosswise direction providing a high resolution cross-profile.

The electronics for all three systems are linked to the operator's terminal via an Ethernet connection. This structure facilitates scalability–for example a second operator's terminal or an archiving system. It is also possible to connect further gauges to the Ethernet, and to operate them via a central operator's terminal.

General Specifications	RM 200 CM / RM 200 PL strip thickness gauge	RM 302 ES strip thickness gauge
Source type	1 x Am 241 (37 GBq or 111 GBq)	3 x Am 241 (37 GBq or 111 GBq)
Material to be measured	Steel strip	Steel strip
Thickness measurement range	0.1 to 6.0 mm (0.004 in to 0.230 in)	0.1 to 6.0 mm (0.004 in to 0.230 in)
Number of measuring heads	1 (single point measurement); 2 (dual configuration)	3 in total (1 centerline, 2 at left/right strip edge)
Detector type	Ionization chamber(s)	Ionization chambers
C-frame air gap	Typically 200 mm (7.87 in) — alternatively 100 mm (3.94 in) and 300 mm (11.81 in)	Typically 200 mm (7.87 in) — alternatively 100 mm (3.94 in) and 300 mm (11.81 in)
C-frame throat depth	Typically 2,300 mm (90.6 in)	Typically 2,300 mm (90.6 in)
Maximum strip width	1,600 mm (63 in)	1,600 mm (63 in)

ISO 9001 REGISTERED COMPANY

Thermo Fisher Scientific, Erlangen, Germany is ISO Certified.

USA
22 Alpha Road
Chelmsford, MA 01824
800-366-2533

Germany
Frauenauracher Str. 96
91056 Erlangen
+49 (0) 9131 998 0

Brazil
Rúa Eugênio de Medeiros, 303, 11th floor
CEP: 05425-000 São Paulo – SP
+55 11 2730 3261

China
Building 6, No. 27 Xin Jinqiao
Pudong, Shanghai 210206
+86 (0) 21 6865 4588

Japan
3-9C Building,
Moriya-cho, Kamagwa-Ku,
Yokohama 221-022
+81 45 453 9188

India
101/102 Pride Portal
Shivaji Housing Society
Village Bhamburda,
Pune 411016
+91 20 6626 7000

Korea
Kookmin 1st Bldg, 6th floor,
1009-5, Daechi-Dong, Gangnam-Gu,
Seoul, 135-851
+86 (0) 21 6865 4588

Australia
18 Butler Boulevard
Burbridge Business Park
Adelaide, 5950
+61 (08) 8208 8200

Find out more at **thermofisher.com/gauging**

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