

The flexible architecture of these Thermo Scientific systems allow for single, dual or triple-point measurements. With a variety of options, these systems can verify your prime product quality from coil head to tail giving you the exact cross-profile information your customers need.

## Thermo Scientific RM 200 EM and RM 302 ES Strip Thickness Gauges



Thermo Scientific strip thickness gauges demonstrate excellence in non-contact thickness measurement.

### Thermo Scientific RM 200 EM

The RM 200 EM strip thickness gauge provides a precise, high-speed non-contact measurement of strip thickness in a variety of applications.

The systems are supplied with gamma-ray measuring heads to provide inexpensive, reliable thickness measurement in the centerline of the strip. An optional scanning package for cross-profile thickness measurement can be provided. The RM 200 EM is designed to operate with minimum maintenance in the most demanding environments. It is 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

The RM 302 ES simultaneous triple-spot thickness gauge has been developed for use in:

- Processing lines
- Pickling lines
- Tandem mills

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.

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 with a special source design permit a measurement resolution of less than 12 mm (0.47 in) in the crosswise direction. This is a prerequisite for high cross-profile resolution.

The electronics are linked to the operator's terminal via an Ethernet connection. This structure facilitates additions to the RM 302 ES—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.

### Features

- High-efficiency detectors
- Rugged C-frame with electric drive
- Optional data archiving system
- Serial or Ethernet interface to host computer 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



**Operator's Terminal**

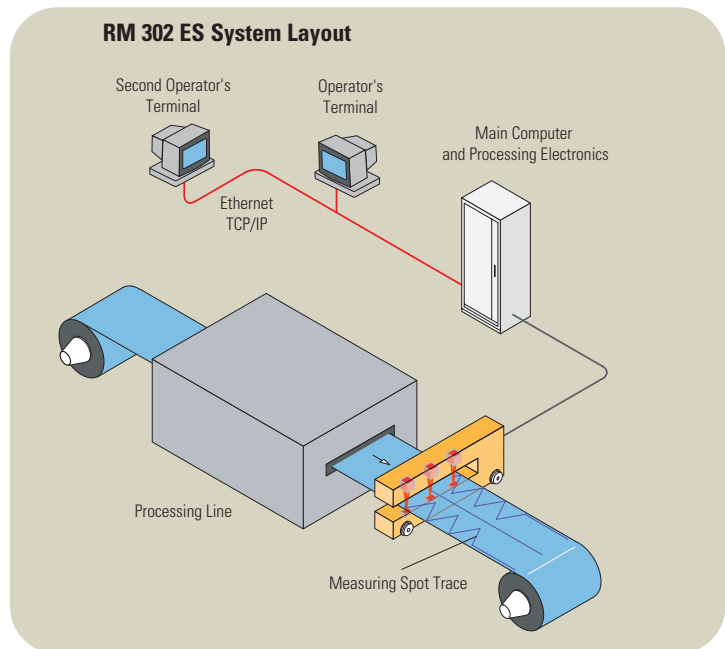
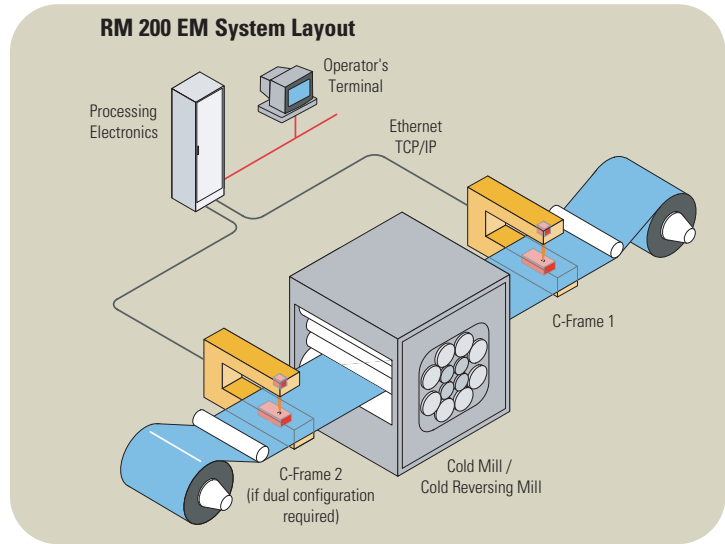
The operator's terminal of both the RM 200 EM and RM 302 ES consists of a PC with a color monitor and is connected with the processing electronics in the gauge cabinet via the Ethernet connection.

The RM 302 ES has a menu-controlled Thermo Scientific EPOS interface, which can be configured according to the end user's requirements. It also allows the processing and display of external process data.

The EPOS interface is based on the Microsoft® operating system Windows® NT/2000/XP (company approved version). For simple and user-friendly operation of the gauge, the monitor pages are structured in groups for data entry, operation, measured values, system configuration and service.

Other features of the EPOS interface are:

- Language Manager: For changing the operator interface's language.
- Level Manager: For security purposes, every action/function of the operator station is set to an access level.
- Print Manager: For configuration of report printing options.
- Product Data Memory: For storage and preparation of product data sets.



**RM 200 EM and RM 302 ES — Strip Thickness Gauges**

	<b>RM 200 EM</b>	<b>RM 302 ES</b>
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)

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