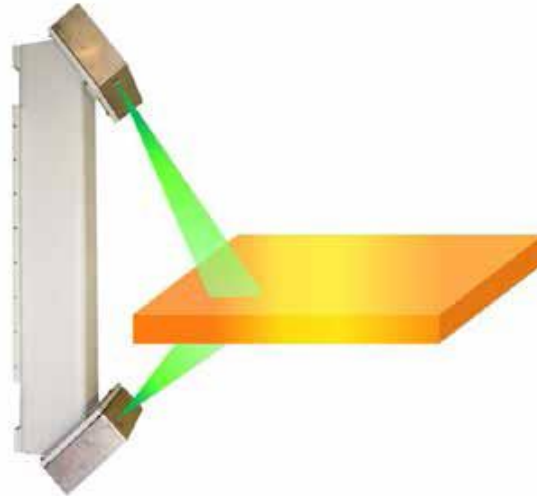


Gordy's Sensors, LLC

Gordy's Sensors, LLC 5772 Smaller Rd, Johnstown, Ohio 43031 Tel: (740) 967-2283 Fax: (740) 967-2855
Specializing in Sensors Web Site: www.gordyssensors.com

GS-2000 Series Thickness Gauge



TYPICAL APPLICATIONS

- Measure of steel sheets at plate mill exit side.
- Measure of slabs at plate mill entry side.
- Sorting of metal sheets at cooling bed.
- Measure of metal strips in hot processes.
- Measure of aluminum blocks at mill exit side

DESCRIPTION

Gordy's thickness gauge is based on the optical triangulation principle of a laser line observed by high resolution isochromatic camera. It is an optical measurement method without contact and without hazard radiations. Two measuring heads are mounted one on the top and one on the bottom side of a heavy-duty I-Frame at a certain angle of inclination with respect to material surfaces, in such a way to work from outside of the material running area, in a safer position rather than over and below setup requested by the typical measurement configuration with C-Frame. A thin laser line is projected on each of the two material surfaces and it is observed by the relevant camera through a proper optical system. Each head measures the position of the relevant surface along the laser line. Material thickness is then calculated from the combination of the measured points, given the distance and the inclination of the two heads. The system is designed to operate in production lines to measure materials with high thickness variations, either cold or hot, either standing or running. System precision is proportional to the measuring range and independent from material thickness and composition.

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GS-2000 Series Thickness Gauge

Technical Data	
GS-2000	2000 Series Thickness Gauge
Measuring Range	200 mm, 7.87 inches
Working Distance	1300 mm, 51.18 inches
Resolution	0.01 mm, 0.0003937 inches
Precision	0.05 mm, 0.0019685 inches
Material Temperatures	Up to 1200 °C, 2192 °F
Laser Source	Class 3B, visible
Processing	multi-averaging and digital filters
Digital I/O	8 + 8
Data Output	Ethernet/SSI/Profibus/RS422
Protection	IP65 (measuring heads)
Power Supply	24 VDC or 120 VAC

System Configuration

Water-cooled I-Frame and stainless steel protection cover

- *LLS measuring heads with control and regulation system of internal temperature.
- *Water cooling plate.
- *Air cooling system for optical windows.
- *Air purging system for optical windows.
- *Integrated optical pyrometer to measure material temperature.
- *Stainless steel protection cover



Instrumentation Cabinet with system CPU and interface modules

- *Touch screen operator panel for display and parameter settings.
- *Automatic calibration system, pneumatically actuated
- *Interconnecting Cables

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OPTION AND ACCESSORIES

- *Motorized travelling stage for measuring unit positioning.
- *Control panel.
- *Instrument air treatment unit.
- *Remote display.
- *I/O modules and field-bus.

