

GaugeMaster PLC Thickness Gauge

Designed for use in the most demanding environments, the GaugeMaster PLC X-ray Thickness Gauge provides the most accurate and dependable, high-speed measurement available. With its sub-millisecond sampling rate, the GaugeMaster PLC is the perfect fit for the most demanding applications.



The GaugeMaster PLC combines the traditional hardware reliability and robustness that you have come to expect from a PLC with the flexibility and power of an industry-leading Machine Automation Controller (MAC) to eliminate the degradation of performance found in other PLC-based gauging systems.

Machine Automation Controller (MAC) is designed to meet extreme machine control requirements in terms of speed and accuracy, communication, security and robustness. The extended service life and familiar “PLC” operating environment make it an attractive solution to Automation Engineers, Technical Support Specialists and staff.

Features:

- Accurate, high-speed measurements; up to 2,000 measurements per second
- Expandable architecture; can accommodate two C-frames per cabinet
- Configurable; centerline, scanning, and dual profile configurations
- Software developed by RSI in-house software engineers. No third party software support required.
- Unmatched CPU performance: up to 500 μ s cycle times
- Real-time diagnostics and event logging
- Supports most popular network interfaces: TCP/IP, EtherNet/IP, PROFIBUS, OPC, etc.
- Simple, easy-to-use operator’s interface with password protected, multi-level access control
- Touchscreen Operation with customer-configurable displays
- Remote Diagnostic Capability (remote support via network or telephone connection)

Measurement Corrections and Compensations:

- Passline Height and Angle
- Air Gap Temperature
- Coating Compensation
- Strip Temperature Correction
- DynaComp Alloy Correction (chemistry)
- X-ray Spectrum Correction (XSC)

The RSI Difference

While other x-ray gauge manufacturers simply regulate beam Intensity, RSI tightly regulates **Beam Energy** as well. Regulating **Beam Energy** to exacting tolerances not only ensures excellent measurement stability, it maintains long-term accuracy without the need for a large number of internal samples.

Regulating **Beam Energy** also simplifies alloy compensation. Energy regulation eliminates the problem of alloy correction “drift” along with the need for a large number of alloy samples required by other gauge manufacturers.