

GaugeMaster Plus Thickness Gauges for Steel Cold Mills



RSI GaugeMaster Plus T100XC

Thickness Range 0.1mm thru 8.00mm (0.004" thru 0.320")

RSI GaugeMaster Plus T160XC

Thickness Range 0.25mm thru 15.00mm (0.010" thru 0.600")

Designed for use in the most demanding environments, RSI thickness gauges feature designed-in reliability. Heavy duty C-frames with air wipes for the source and detector windows provide protection for the critical measurement sensor components, with unique positive drive systems for quickly moving on and off sheet. Our x-ray sources deliver up to four years of trouble-free operation when correctly installed with an RSI supplied/recommended closed loop chiller, and our x-ray detectors and calibration systems offer similar levels of dependability. The electronics and computers feature temperature ratings up to 50°C, ruggedly packaged to provide years of trouble-free operation. RSI can customize gauges to suit specific requirements, both mechanically and electrically, in order to integrate seamlessly into the gauge control and SQC applications and to provide the solutions you need.

RSI's unique electronics package features high-speed measurement processing – GaugeMaster Plus updates every 0.25 milliseconds. The systems include constant monitoring of system status (including the ambient temperature of the system electronics) plus alarm logging together with a complete package of diagnostic tools. Remote troubleshooting via modem or network connections is optional. Other features include scalable inputs and outputs, custom labeling, multiple levels of system access via passwords and fully automatic software loading with a flash drive.

Linux-based C++ software provides superior reliability, as well as freedom from future obsolescence and support issues. Reliability is enhanced by using multiple CPU's; one for measurement and one for network communications to a Level II computer, to multiple RSI operator interfaces and to RSI GaugeMaster Plus gauging systems. This strategy insures that the measurement process continues uninterrupted in the event of a communications failure thereby preventing catastrophic control events. For even greater reliability, all GaugeMaster Plus systems are supplied with solid state flash drives.



RSI GaugeMaster Plus T100X2C and RSI GaugeMaster Plus T160X2C

For applications that demand the use of two sets of measuring heads or C-frames, RSI's gauging package can provide dual gauge capability without compromising measurement reliability, accuracy or speed.

When configured to control two sets of measuring heads, significant cost savings can be realized in reversing mills and other similar applications, providing our customers with even greater value for their gauging dollar!

The RSI Difference

While other x-ray gauge manufacturers provide x-ray sources with regulated beam intensity, RSI's systems also tightly regulate beam energy. This ensures not only excellent stability ("long term drift"), but also maintains long term accuracy without the use of large numbers of internal samples. In addition, beam energy regulation simplifies alloy compensation, eliminates the need for large numbers of alloy samples and at the same time guarantees that alloy correction factors do not change over time, as is the case in x-ray gauges from other manufacturers.