Advanced Energy

MXE HIGH-SPEED PYROMETER

HIGH-SPEED MEASUREMENT FOR PRECISE CONTROL IN DYNAMIC PROCESSES

The Sekidenko MXE pyrometer combines speed and precision, enabling accurate, non-contact, repeatable measurement and control of demanding applications. Its high-speed (up to 10 kHz) performance is ideal for processes with moving targets, such as rotating susceptors. It is also extremely well suited for dynamic processes, including laser-based processing or rapid anneals. For easy integration and flexible control options, the MXE unit is remarkably compact and supports a variety of I/O protocols.

Features

- In-situ, non-contact temperature and emissivity measurement
- High-speed measurement ideal for a variety of applications
- Variety of available temperature + reflectance wavelengths
- EtherCAT, USB, and analog output options

Benefits

- Increased process insight
- Highly configurable platform
- Improved temperature measurement accuracy and repeatability
- Enhanced uniformity
- Increased productivity, yield, and throughput
- Decreased development time
- Comprehensive measurement capabilities
- Easy integration and flexible control

MXE pyrometer

INCREASED PROCESS INSIGHT

Temperature control is increasingly critical in a variety of applications. The MXE pyrometer is ideally suited to measure temperature in tightly controlled applications where uniform, repeatable measurements are required.

HIGHLY CONFIGURABLE PLATFORM

The MXE pyrometer is configurable to suit a variety of applications. Features such as measurement wavelength, active reflectance, optical interface, and I/O protocols can be optimized for a specific application. Measurements up to 10 kHz are possible.

In addition, a variety of spot sizes and working distances can be supported. Use of fiber-coupled collection optics can also be supported for applications requiring remote placement of the electronics.

ACCURATE, REPEATABLE PERFORMANCE

High-speed measurement allows collection of multiple data points and ensures statistically significant temperature determination. Moreover, built-in compensation algorithms allow stable operation over the full ambient temperature range for repeatable and consistent measurement.

COMPREHENSIVE MEASUREMENT CAPABILITIES

Measurement wavelength can be selected specifically for the the target and temperature range of interest, ensuring optimal results. Reflectance is also available, allowing for emissivity-corrected measurements on opaque targets.