



Luxtron m920 Series

Fiber Optic Temperature Sensing for OEMs between -100 to 330°C

Advanced Energy's Luxtron four-channel m924 and two-channel m922 semiconductor modules are designed for etcher and wafer fab equipment temperature monitoring of electrostatic chucks, chambers, and other devices.

- Mix and match components
- Works with current semiconductor Luxtron brand Fluoroptic probes and fiber optic extensions
- Built-in calibration tables match to custom AE probes for high accuracy measurements
- Accuracy of up to $\pm 0.05^{\circ}\text{C}$ is achievable (probe dependent)

Technical Specs

- **Performance**

Channels

m922: 2

m924: 4

Temperature Range

-100 to 330°C (probe dependent)

Measurement Resolution

0.01°C

Measurement Rate

Up to 50 Hz per channel

Accuracy

±0.05°C (probe dependent)

- **Environmental Specifications**

Operating Temperature

-40 to 85°C

H x W x L

23.7 x 100.6 x 134.4 mm (main board)

Housing

Metal enclosure for electromagnetic shielding (optional accessory)

- **Communication**

Analog Output

0 to 10 V or 4 to 20 mA

Serial Output

RS232 and RS485

Protocol

ASCII and Modbus (RS485)

- **Electrical**

Input Power

+5 to 24 VDC nominal at 100 mA

- **Typical Applications**

- Plasma etch electrostatic chuck monitoring
- Plasma shower monitor inside the chamber
- Temperature monitoring outside the chamber
- Wafer fab equipment temperature monitoring
- Semiconductor and FPD processing using RF and plasma

Specifications are subject to change without notice. Not all options and accessories are available for all models and configurations. Dimensions listed generally refer to standard configurations and module bodies only. Please confirm technical specifications and customizations with a sales representative. Advanced Energy is not responsible for errors or omissions.

