

LUXTRON M-1200 FLUOROPTIC® TEMPERATURE CONVERTER

Precision temperature measurement for OEM
semiconductor and medical applications with RF,
microwave and high voltage



Advanced Energy's Luxtron® M-1200 offers highly accurate and reliable FluorOptic® technology in a compact, robust form factor for OEMs. The M-1200 provides an ECAT interface and includes local rotary switches for easy ID settings.

PRODUCT HIGHLIGHTS

- New, low noise amplification circuitry for improved accuracy and long-term stability
- Five channels enabling compact packaging for multi-zone measurement and control
- Robust light source designed for years of maintenance-free operation with no calibration requirement

TYPICAL APPLICATIONS

- Semiconductor Electrostatic Chuck (ESC)
- Semiconductor Chamber and Process Control
- Semiconductor Back-End Process Monitoring
- Microwave Heating
- Transformer Winding Hot Spot Monitoring
- Medical RF Heating and Ablation
- Patient Monitoring During MRI
- Scientific Research

AT A GLANCE

Wide Temperature Range

-200 to 300°C
or 20 to 450°C

Channels

Up to 5

Industry-Leading Accuracy

Up to $\pm 0.15^\circ\text{C}$

Probes

AE's Standard or Custom OEM
Probes

Interface

ECAT

TECHNICAL DATA

Measurement Specifications

Temperature Range	-200 to 300°C or 20 to 450°C
Channels	Up to 5
Accuracy	Up to $\pm 0.15^{\circ}\text{C}$ (Probe dependent)
Noise	$\leq 0.1^{\circ}\text{C}$
Sampling Rate	10 Hz, typ, 50 Hz, max
Interface	EtherCAT
Power Input	24 VDC $\pm 10\%$, M8 connector

Environmental Specifications

Operating Temperature Range	0 to 60°C
Compliance	CE, RoHs
Humidity	<80% RH, non-condensing
Enclosure Dimensions	120.0 mm (H) x 120.2 mm (W) x 33.8 mm (D)
Mounting	Din Rail

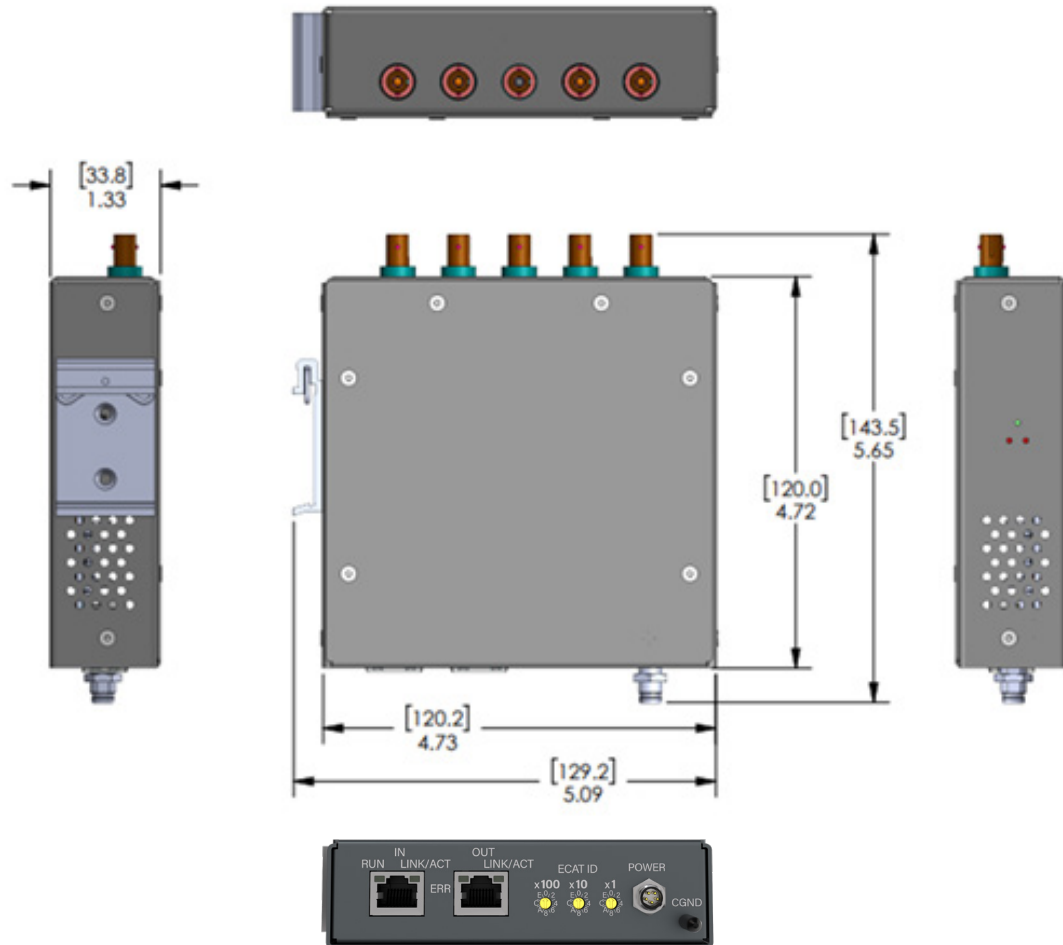
Probes

Probe Connections	ST
OEM Services	Custom OEM probe designs and calibration

ORDERING INFORMATION

PN	Description
FOT-12AB-0000	A - 0: -200 to 300°C; 1: 20 to 450°C B - 1 to 5 channels

MECHANICAL DRAWING





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ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

AE's power solutions enable customer innovation in complex semiconductor and industrial thin film plasma manufacturing processes, demanding high and low voltage applications, and temperature-critical thermal processes.

With deep applications know-how and responsive service and support across the globe, AE builds collaborative partnerships to meet rapid technological developments, propel growth for its customers and power the future of technology.

PRECISION | POWER | PERFORMANCE | TRUST

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