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Basic Design with Same Degree of Excellence

Designed with the same level of dependiblity and precision of Eon™ system, the EonLT™ PC-Based Film Thickness Monitor provides a basic feature-set for users who do not require process or temperature control. The EonLT™ offers the same innovative monitoring capability of the Eon™, yet the technology has been streamlined to provide a more compact, low-cost unit.

Like the Eon™, the Eon-LT™ is a temperature measuring film thickness monitor which surpasses conventional monitors that are blind to thermal changes of the crystal. The combination of frequency and temperature measurement allows unprecedented accuracy in real-time rate and film thickness monitoring.

Why measure temperature?

The frequency change of a crystal by process heating can easily be equal to the frequency change caused by coating. In normal opertion there is a built-in 10% error in most rate measurements. In the worst case, the error rate can reach 100% - calling into question the entire purpose of the measurment process.

While Eon-LT™ is compatible with industry standard crystal sensors, the unit was also specifically created to be paired with Colnatec's Phoenix™ in combination with AT™, HT™, RC™, or SuperQuartz (SQ™) 6 MHz crystals for acheiving a degree of precision never before imagined in the world of thin film.

Eon-LT™ PC-Based™ Monitor
Film Thickness Monitor with Temperature Measurement

Features

- Temperature measuring quartz oscillator

- Communicates with Colnatec's Cactus™ software

- Real time graphing of temperature and frequency alongside corresponding rate and thickness values

- Shutter on/off support (relays)

- Widely expandable systems - up to 255 Eon-LTs™ can be networked

- All connecting cables, software, and instruction manual included

Specifications

- Drives crystals 1-10 MHz, 1-200 Ω, any type (Quartz, SuperQuartz™)

- Two type K thermocouple input; accurate to +/-0.25°C

- Two high resolution sensor head input accurate up to .001 Hz

- 24 volt power (supplied)

- Industry Standard RS232 communication protocol

- 4.5" X 2.5" X 1"

- Two user-selectable relays

- Two status LEDs

Ordering Information	
Eon-LTC™	Temperature measurement & source control
Eon-LTM™	Temperature measuring film thickness monitor