COLNATEC

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All-inclusive, versatile, affordable thin film deposition control solution

Drawing from its extensive background in the design and manufacture of cutting-edge thin film technology, Colnatec introduces a new film thickness controller that packages an ultra-high resolution deposition control system into a compact, rackmountable enclosure.

With its integrated display, intuitive GUI, and durable architecture, Eon-ID™ film thickness controller is the only product of its kind that works right out of the box.

Eon-ID™ offers an all-inclusive design that adapts easily to a variety of settings - ranging from industrial to laboratory to clean room to research environments.

With its temperature monitoring capability, touchscreen display, and sturdy industry-ready design, Eon-ID™ presents an all-in-one solution that will probably be the last thin film QCM controller you'll ever need!

Eon-ID™ Controller w/ Integrated Display

Comprehensive, Versatile Film Thickness Controller

Features

- Integrated touchscreen display for process programming and monitoring - easier than using a *smartphone!*
- Connectivity includes RS-232, USB, and WiFi
- Rackmount capable (1 or 2 Eon-IDs per slot)
- Dual sensor and source channels for expanded capability (four channels optional)
- Advanced technology that increases reliability and durability in industrial environments
- Features built in temp monitoring and source control
- I/O Ports
  Relays: 10 (programmable)
  1 (abort only)

  Inputs: 8 (programmable)

Applications

- Atomic Layer Deposition (ALD)
- Chemical Vapor Deposition (CVD)
- Molecular Beam Epitaxy (MBE)
- CIGS (thin film solar)
- OLED (display & lighting)
- Multi-Layer Optical Thin Film Deposition
- Roll-to-roll coating

Compare to Maxtec™ MDC-360™, INFICON™ XTC/3™, and IC6™

EID-022217

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Specifications

Measurement	
Frequency Resolution	0.001 HZ @ 6 MHz (1 sample per second)
Sample Rate	100 Hz to 10 Hz
Display Update Rate	10 Hz to 1 Hz
Sensor Crystal Frequency	6 MHz
Drives Crystals	6 MHz, 1-200 Ω, any type
Display	
Thickness	Auto ranging: -999 to 9999.9 kÅ
Rate	Auto ranging -999 to 9999.9 Å
Crystal Health	00 to 100%
Screen	7” LCD-TFT display graphics; 800 x 480 VGA resolution; resistive touch
Communications	
RS-232 Communication Compatibility	Yes
RS-232 Baud Rate	115.2 KBaude
Communications Protocol	RS-232 standard
Software	
Number of Processes	100,000
Number of Layers	100,000
Manual Power Control	Yes
User Labeled Process (full touchscreen with alphanumeric entry)	Yes
User Labeled Films (full touchscreen with alphanumeric entry)	Yes
Shutter Delay	Yes
Software Control Loops	PID
Data Logging	Yes
User Language	English

Hardware	
Sensor	2 BNC connections (4 optional)
Temperature	K-type TC (2, 4 optional)
Sources	0-5v DC source controls (2, 4 optional)
Relay Output Setup	Outputs can be triggered according to user-defined conditions
Sensor Head Input(s)	High resolution inputs, accurate up to .001 Hz (2)
Thermocouple Input(s)	K-type thermocouple inputs; accurate to +/-0.25°C (2)
Rackmount Dimension	Standard 19” 3U high rack; 1 or 2 Eon-IDs per slot
System Cooling	Exhaust Fan
Display with Graphics	Yes
I/O Ports	
DB37 **Relays** 9 Relays	6 SPST (programmable) 2 SPDT (programmable) 1 SPST (abort only)
Inputs 8 Inputs	Passive Type Digital 5v
DB9 **Relays** 2 Relays	2 SPST (programmable)
Relay Voltage Rating	30 VAC; or 30VDC@3A
Dimensions	
10” L X 8.25” W X 5.25” H	
Power Supply	
24 volt power (supplied); 100-240v @ 50/60 Hz	
Ordering Information	
Eon-ID™	Thin film monitor/controller with integrated touchscreen and temperature measurement