

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
- 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™

Specifications

Measurement	
Frequency Resolution	0.001 HZ @ 6 MHz (1 sample per second)
Sample Rate	100 Hz - 10 Hz (10 ms - 100 ms)
Display Update Rate	10 Hz - 1 Hz (10 ms - 100 ms)
Sensor Crystal Frequency	6 MHz
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	115200 Baud
Communications Protocol	RS-232 standard (See "RS232 Commands" in the Eon-ID manual)
Software	
Thickness	Auto ranging: -999 to 9999.9 kÅ
Rate	Auto ranging -999 to 9999.9 Å
Power	00.00 to 100%
Crystal Health	00 to 100%
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

Electronics	
Temperature	2x TC Type K
Source Power Supply Signal	0-5v DC source controls (2)
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) BNC
Thermocouple Input(s)	K-type thermocouple inputs; accurate to +/-0.25°C (2)
Display with Graphics	7" LCD-TFT display graphics; 800 x 480 VGA resolution; resistive touch (touchscreen)
DB37	<p>Relays* 9 Relays 6 SPST (programmable) 2 SPDT (programmable) 1 SPST (abort only)</p> <p>Inputs 8 Inputs Passive Type Digital 5v</p> <p>*Max 2A@30VDC</p>
DB9	<p>Relays* 2 Relays 2 SPST (programmable)</p> <p>*Max 2A@30VDC</p>
Dimensions	
Eon-ID™ Controller	10" L X 8.25" W X 5.25" H
Rackmount Dimension	Standard 19" 3U high rack; 1 or 2 Eon-IDs per slot
Power Supply	
24 volt power (supplied)	
Ordering Information	
Eon-ID™	Thin film monitor/controller with integrated touchscreen and temperature measurement