

Model 861 Deposition Controller

A direct pin-to-pin compatible replacement for Telemark 860 / 880 and Maxtek 360 controllers



- High frequency internal reference oscillator provides <0.01A resolution for aluminum
- Operates with 5 MHz or 6 MHz crystals
- All new innovative crystal oscillator design for outstanding stability and noise immunity
- Extensive materials library, also allowing for user definable materials
- Color LCD touch screen for graphical and numerical display of primary real-time process data, providing an intuitive and user friendly operator interface
- Touch screen capabilities:

In-process parameter modification Process and Layer editor I/O status and control

Real time graphical display of: Power v/s time, Rate v/s time, Thickness v/s time, Rate deviation v/s time

- All system, film and setup files may be saved via a front panel USB port, as well as uploaded to instrument
- Can accommodate up to 99 processes of 999 layers each
- Standard unit has 2 crystal sensor inputs and 2 isolated rate control analog output drivers, expandable to 4 each.
- 8 relay isolated outputs and 8 optically isolated inputs (for both active and passive mode), with the option to upgrade to 16 ea. (Model 880 configuration) or 32 ea. (Model 360/860 configuration), for ancillary operations such as pocket indexing, sweep selection and sensor selection.

Specifications

Sensor Crystal Frequency 5 or 6 MHz

Resolution <0.02Hz (<0.01A for Al @ 6MHz)

Accuracy +/- 0.5% thickness
Thickness Display 0.000 - 999.9 kÅ
Power Display 0.00 - 999.9 %
Rate Display 0.00 - 999 Å/s

Measurement Update 10 per second Control signal Update 10 per second

Inputs 8 optically isolated, active (4 to 24V DC or AC), or passive (contact closure)

Outputs 8 relay contacts NO/NC @ max 1A, 24 DC or AC

Analog Outputs 0-5VDC or 0-10VDC (either polarity)

Power Input 90-260VAC, 50-60 Hz





Model 851 Thickness Monitor



- High frequency internal reference oscillator provides <0.01A resolution for aluminum
- Operates with 5 MHz or 6 MHz crystals
- All new innovative crystal oscillator design for outstanding stability and noise immunity
- Extensive materials library, also allowing for user definable materials
- Color LCD touch screen for graphical and numerical display of primary real-time process data, providing an intuitive and user friendly operator interface
- Touch screen capabilities:

In-process parameter modification I/O status and control Real time graphical display of: Rate v/s time and Thickness v/s time

- All system, film and setup files may be saved via a front panel USB port, as well as uploaded to instrument
- Can accommodate up to 99 materials
- 2 crystal sensor inputs and 2 isolated DAC analog outputs for chart recorders
- RS-232 interface

Specifications

Sensor Crystal Frequency 5 or 6 MHz

Resolution <0.02Hz (<0.01A for Al @ 6MHz)

Accuracy +/- 0.5% thickness
Thickness Display 0.000 - 999.9 kÅ
Rate Display 0.00 - 999 Å/s
Measurement Update 10 per second

Inputs Start, Stop, Film Number, Increase, Decrease

(optically isolated, active (4 to 24V DC or AC), or passive (contact closure) 1 relay for Source Shutter, 1 relay for Sensor Shutter (max 1A, 24 DC or AC)

Outputs 1 relay for Source Shutter, 1 relay for Sensor Sh DAC Outputs 0-5VDC or 0-10VDC (either polarity)

Power Input 90-260VAC, 50-60 Hz

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