

Model 866 Deposition Controller



The 860 uses an IBM compatible chip set that contains a dual core processor operating at 2 GHz. It has 2 Gigabytes of RAM and a 50 Gigabyte hard drive, capable of storing an almost infinite number of recipes and layers. It features 3 large LED displays that continuously display Power, Rate & Thickness. The displays are updated every 300 ms. The system also supports an optional external full color monitor, keyboard and mouse.

The primary real-time operating parameters are graphically displayed on a 5" LCD display. The display also supports a full alphanumeric keyboard for real time process and recipe modifications. All system files may be reviewed, modified and tested on an off-line computer and down loaded to the instrument for use.

Display capabilities:

- In-process parameter modification
- Process and Layer key board based editor
- Maintenance 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

The 866 supports USB, RS232 and RJ45 communication hardware with appropriate protocols.

There are 2 crystal sensor inputs and 2 isolated power supply analog output drivers.
There are 8 relay isolated outputs and 8 optically isolated inputs with the option to upgrade to 16 each.

Process status and error messages are displayed on screen.

Along with the normal front panel buttons (Start, Stop, Reset, Manual, Zero), there are 3 user programmable buttons for system control.

Sensor Crystal Frequency	5 & 6 MHz
Resolution	0.03 Hz
Accuracy	+/- 0.5%
Measurement Range	500 kÅ Aluminum equivalent
Thickness Display	0.000 – 999.9 kÅ
Power Display	0.00 – 99.9 %
Rate	0.00 – 999 Å/s
Display Update	300 ms
Inputs	8 optically isolated inputs, 4 to 28 VAC/DC
Outputs	8 relay contacts NO/NC @ max 2A, 24VAC/DC
Analog Outputs	12 Bit DAC, 0 – 5VDC or 0-10VDC
Power Input	115/230VAC, 50/60 Hz