

THICKNESS MONITOR UNIT

Digital Thickness Monitor will be used to monitor the thickness of the thin film during evaporation / sputtering / coating

It consists of the following main items

- Digital Thickness Monitor
- Oscillator Box
- Cable to connect DTM to Oscillator Box
- BNC Cable to connect Oscillator Box to Feedthrough
- Mains Cable
- Water cooled Quartz Crystal Holder with Feed through



DIGITAL THICKNESS MONITOR

Measurement	Transducer limited typically 5,000 μ g/cm ² as much as 20,000 μ g/cm ²
Rate Display	3 digit LED Auto Ranging 0.00 to 999 Å/Sec
Thickness Display	4 digit LED Auto Ranging 0.000 to 999.9 K Å
Update Rate	Automatically varied to 4 to 5 update / sec
Static Thickness Rate	1 Å @ Minimum update resolution
Input Parameter Acoustic	Tooling factor, density and acoustic impedance readout directly in
	angstrom
Film No. Parameters	Allows input for upto 100 films
Tooling Factor	1.0 to 999.9%
Film Density	0.800 to 99.99 gm/cm ³
Film Acoustic Impedance	5.000 to 99.99 x 10 gm/cm-sec
Shutter Control 🥢	Dedicated Relay Internal 3 Amp fuse protection two relays
Thickness Set Point 🥖	0.000 to 999. <mark>9 K Å shutter close</mark> s when displayed thickness equals or
	exceeds set point
Start Control 🛛 🖌 🦯	Zero Thicknes <mark>s an</mark> d Opens Shutter
Stop Control	Close Shutter
Shutter Position Indictor	LED On indicates shutter relay is activated
Crystal Compatibility	6 MHz
Crystal Test and Dis <mark>pl</mark> ay	Type of Crystal being used
Crystal Health Analogue	Percentage of Crystal life remaining
Output	0 to +5 ±.25 V full scale corresponding to last 2 or 3 digits of selected
	display
Output Control	Rate of thickness select. Decade selects for conversion of last 2 or 3
	digits
Self Test	Automatic Detection and Indication of Oscillator failure, power failure,
	power line failure and internal failure (thickness monitor)
Power Requirement	230 V AC ± 10% ; 50 Hz
Approximate Size in mm	220 (W) X 230 (Depth) x 93 (H)
Operating Temperature	0 to 45 [°] C





Digital Thickness Monitor



Water Cooled Crystal Holder with Feedthrough and BNC Cable



Digital Thickness Monitor with Oscillator Box, Cables and Crystal Holder



Imported – DTM With Accessories



Oscillator Box with Cables and Feedthrough