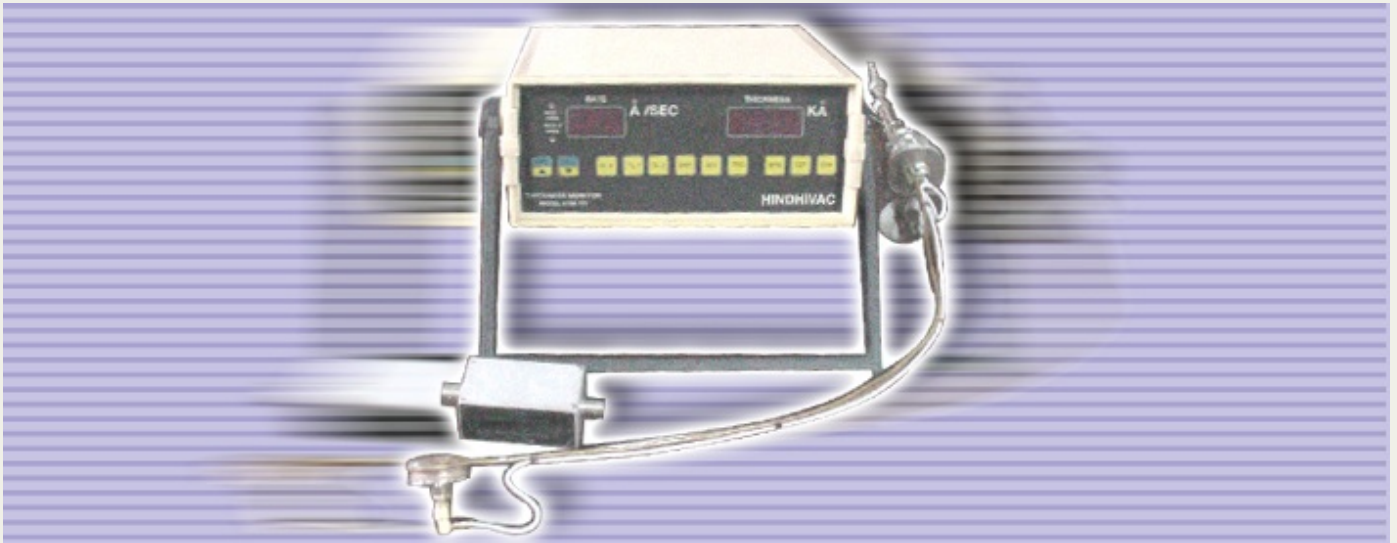


Digital Thickness Monitor

Model: DTM 110



TECHNICAL SPECIFICATIONS

Measurement	Transducer Limited Typically 5,000 Microgram/Sq.Cm. As much as 20,000 Microgram/Sq.Cm for well behaved materials. (1.0 Microgram/Sq.Cm = 37 Ang Al)
Rate Display	3 Digit LED Auto-ranging from 00.00 to 999 Ang/Sec.
Thickness Display	4 Digit LED Auto-ranging from 0.000 to 999.9 K Ang.
Update Rate	Automatically varied - 0.4 to 5 updates/Sec.
Static Thickness	1 Ang at minimum Update Rate.
Input Parameter	Tooling Factor, Density and Accoustic Impedence inputs allow read out directly in Angstroms.
Film Number	The Instrument allows input parameters for one film to be entered. DTM-101 allows input parameters for 1 to 100 films to be entered.
Tooling Factor	1.0 to 999.9%.
Film Density	0.800 to 99.99 Gram/Cubic CC
Film Accoustic Impedence	5.000 to 99.99 % x 10-Grams(Sq.Cm secretary)
Shutter Control	Dedicated relay, Internal 5 Amp fuse protection.
Thickness Set Point	0.000 to 999.9 K Ang Shutter closed when displayed equals or exceeds set point.
Start Control	Zeros thickness and opens shutter.
Stop Control	Closes Shutter.
Shutter Position Indicator	LED on indicator shutter relay activated.
Crystal Compatibility	5 or 6 Mhz Jumper selectable.
Crystal Test Display	Type of Crystal Being used. (5/6 Mhz)
Crystal Health	% of crystal life remaining. 0% life referback to a film thickness of 925 KA of Aluminium.
Crystal Frequency	Mhz
Analog Output	0 to + 5V ($\pm 0.25V$) Full scale corresponding to last 2 or 3 digits to selected display.
Self Test	Automatic detection and indication of A. Oscilator failure. Power Line Failure. Internal (Thickness Monitor) Failure.
Power Requirement	230V AC 5 Amps 50 Hz.
Operating Temperature	Upto 50°C
Crystal Holder	Water Cooled.

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