



# Mapping Option

## MProbe Thin Film Measurement System

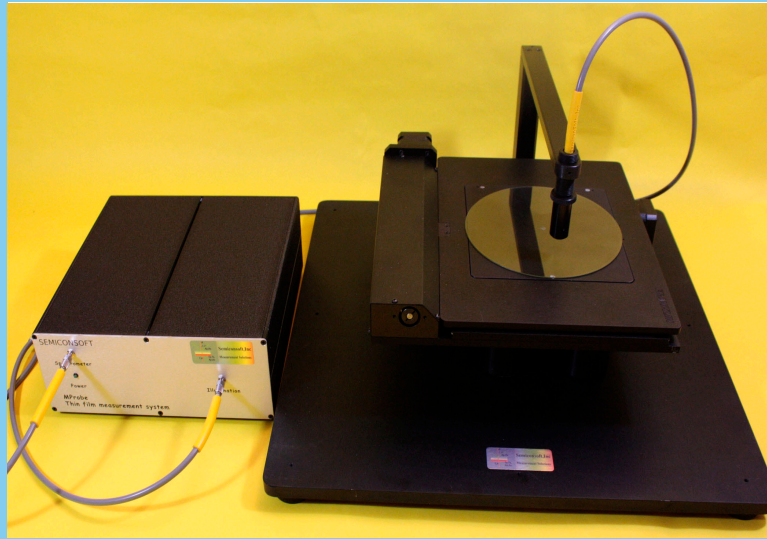
*It is easy to be an expert with MProbe*

Majority of translucent or lightly absorbing films can be measured quickly and reliably: Oxides, Nitrides, Photore-sists, Polymers, Semiconductors (Si, aSi, polySi), Hard coatings (SiC, DLC), Polymer coatings (Parylene, PMMA, Polyamides), thin metal films and many more.

Thickness and other parameters uniformity measurement are important for many applications.

Mapping Option include:

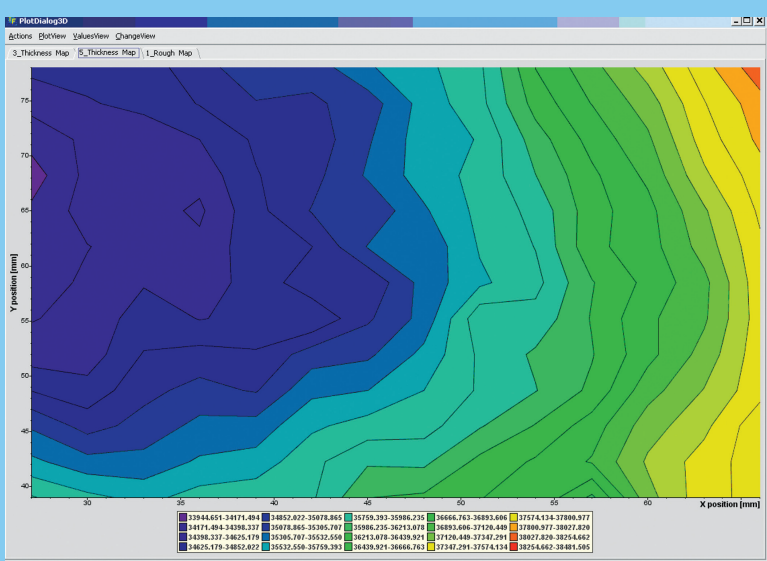
1. XY motorized stage (150,200 and 300mm travel)
2. Solid 19x19" aluminum platform
3. Probe holder (Reflectance and/or transmittance measurement options are available) with optical system
4. Stage controller
5. Software support (mapping recipes, etc.)



MProbe system with mapping option

Hardware options	
-150XYM	6"x6" (150x150mm) XY motorized stage
-200XYM	8 x8" (200x200mm) XY motorized stage
-300XYM	12x12" (300x300mm) XY motorized stage
-VAC	Vacuum chuck (Sample holder insert with microholes and a motor pump)

Position precision	< 2 $\mu$ m
Resolution	< 0.5 $\mu$ m
Drive	Stepper motor
Controller	Integrated with stage
Communication	Serial port (RS232)
Dimension	19" x 19" x 10" (for 6" and 8" stages)
Weight	12 kg



Mapping Dialog

Prepare Mapping | Run Mapping

Measurement Conditions: Mapping

Name: oxide2000

XY Reference offsets: X offset [mm]: 72.00, Y offset [mm]: 125.02

Use type:  Direct control,  Feedback control,  Simulation

Port selection: Available ports: COM1

Manual correction for first scan point: Position stage at the first scan point. And select 'Correction' button to calculate actual offset.

Stage Controller Log: Starting communication with controller, Version 11.27, JoyStick on, Starting initialization sequence for X axis, Start moving X axis to Negative Limt., Negative limit is reached ( X axis ), Moves 1200 steps : from the Negative Limt., case 2 \*\*\*\*\* Completed return to switch = -800 steps, Zero position for X axis is set, Moving to: axis Positive Limt., switch, Starting initialization sequence for Y axis, Start moving Y axis to Negative Limt., Negative limit is reached ( Y axis ), Moves 1200 steps : from the Negative Limt., case 2 \*\*\*\*\* Completed return to switch = -800 steps

Contour map of the thickness measurement (thickness color coded)

Mapping recipe setup and running

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