The Use of Non-Contact Thin Gap Sensors in Controlling Coater Gap Uniformity

Capacitec,Inc

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1. Introduction

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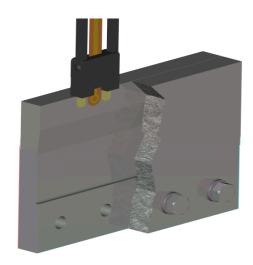


Figure 1

2. Traditional Measurement Methods

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3.	Measurement Solution	
3.1	Capacitive Technology	,
• • 3.2	Sensor Wand Selection	
3.3	Maximizing Accuracy	
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	<u>Custom Fixtures</u>	



Figure 3

3.6 <u>Bargrafx Software</u>

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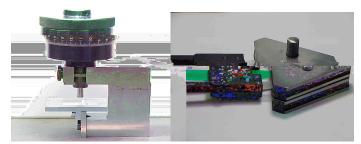


Figure 4:

4. Maximizing Accuracy

Wand: GPD-2G (229 micrometers) Linear range: 479 micrometers
Depth: 5.5 mm

Certified Gap:	Certified Gap: 400.00	Certified Gap: 500.00
300.00 microns	microns	microns
Plastic Guides: 254	Plastic Guides: 381	Plastic Guides: 483
microns thick	microns thick	microns thick
300.17	397.09	496.58
300.03	397.14	496.24
300.05	397.06	495.63
300.08	397.07	496.01
300.07	397.09	495.28
Average	Average	Average
300.08	397.09	495.95
Max. deviation	Max. deviation	Max. deviations
000.17	002.94	004.72
Average deviation	Average deviation	Average deviation
0.09	0.05	0.67

Figure 5: