Description, AN, First look at Decagon's New Porometer		Part # and Rev. 13425-00	
		Release Date: 1-12-07	
Rev.	Description	Revision By	Date

Production Filename: 13425 (In Product Library)

Path to Working Files: DecaDoc\Application Notes\Master

Dimensions: 8.5 inch wide, 11 inch tall

Material: Paper, 92 Bright White or better, 75g/m² or heavier

Colors: Color Print on White

Printer: HP Color LaserJet 8550-PS

Finish: None

Adhesive: None

Special Notes: Illustrations are Ref Only ** Not to Scale ** (Shown page 1 of 2)

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A First Look at Decagon's Nev	Porometer: Understanding the
	ing Stomatal Conductance
Julia I	fumford
I'm looking at a desk full of scientific equipment, an array of commercially available persenters, but have an experimental to available persenters, but hings is Not Lie des 60 ber Oct. I and Decagori new offering is the odd one can be and the second second second second second code of discusser, beat measurements are outly also a second second second second second second becagories of the second second second second bia office plant, which is prime as very bear and second second second second second second becaging a new pairs of planes. Subdest J met core as a do could be second second second second second second second second second second second transfer second sec	These proveneers could indicate whether streames were open or closed, but did little else. Forcing air through the fair was physiologically monoid – it forced stromates to open and the reading lates were only vary self-did, but one shap the self of the strong strong strong strong strong from an air matters pany to a well of the strong form and in matters pany to a well of the strong late farface to matter space to a well of the strong attraction of the strong strong strong strong strong attraction of the strong strong strong strong strong researchers could calculate the strong strong portegets. "Dynamic prometers well to design sportegets and through the chamber is a strong port of the strong strong strong strong strong strong port of the strong st
explains that up until now, porometry has pretty much been about pumping air into and around leaves. Early "Mass Flow" porometers used a blood pressure bulb and valve in combination	Campbell started thinking about a completely different way to measure stomatal conductance – a way that doesn't require moving any air. It relies on a set of equations (shown in the side
with a medical clamp and hose to force air through a leaf. By pressurizing air on one side of the leaf and timing pressure drop, researchers hoped to measure flow through the stomates.	bar) that allow vapor concentration to be determined from relative humidity measurements in combination with other known values. The sensor head for the porometer is a clamp holding
inque to incurate now through the solides.	two relative humidity sensors mounted along a