Description, AN, Calibration Equations for EC-5/TE/5TE		Part # and Rev. 13392-03	
		Release Date: 1-12-07	
Rev.	Description	Revision By	Date
-03	Updated equation 3 & 4	DDH	12/10

Production Filename: 13392 (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 5550

Finish: None

Adhesive: None

Special Notes: Illustrations are Ref Only ** Not to Scale ** (Shown page 1 of 3)



Application Note

Calibration Equations for the ECH2O EC-5, ECH₂O-TE and 5TE Sensors

s ECH₂O EC-5, ECH₂O-TE, and 5TE ECH₂O-TE) probes are used in a soil and soil-less media types, some of quire an adjustment to the probe and the probest of the probability of the

$$\theta = 8.50 \times 10^{-4} * Raw - 0.48$$

$$\theta = 11.9 \times 10^{-4} * mV - 0.401 \tag{2}$$

 $\theta = 10.3 \text{x} 10^{-4} * mV - 0.334$

for a datalogger with 2500 mV ex

rockwool with solution electrical cond of 0.2, 1.0, 1.5, 2.0, and 4.5 dS/m. Vo water content can be calculated using

 $\theta = 6.28 \times 10^{-7} * Raw^2 + 1.37 \times 10^{-4} * Raw - 0.183$ (5)

 $\theta = 2.63 \times 10^{-6} * mV^2 - 5.07 \times 10^{-4} * mv - 0.0394$

 $\theta = -1.30 \times 10^{-7} * Raw^2 + 8.81 \times 10^{-4} * Raw - 0.314$