Description, AN, Changing ECH2O Check calibration		Part # and Rev. 13396-00	
		Release Date: 1-12-07	
Rev.	Description	Revision By	Date

**Production Filename:** 13396 (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 \*\*



Application Note

## Changing the Calibration of the ECH<sub>2</sub>O Check Handheld Reader

The EGLI40 Check reader is shipped with a factory-suppled calibration that relates the mV EGLI40 characteristic content of the EGLI40 - 100 to the actual volumeric water content (VWC 0) of the soil. The equation is linear, with a slope and an intercept, and is well usuled for soils with low to moderate and suited for soils with low to moderate and own equation, the EGLI40 Check also allows the user to adjust slope and intercept to optimize the calibration for their particular soil. During extensive calibration of the probes, soils with somewhat the calibration of the probes, soils with the calibration of the probes, soils with the calibration of the probes, soils with the calibration of the probes of the calibration consists than those with low to moderate and

The factory calibration of the ECH<sub>2</sub>O Check is changed using the two keys on the ECH<sub>2</sub>O Check (I and II) and requires no other tools. The original factory calibration for a 2500mV satisfactory.

θ =0.07 \* mV - 29.0

r the standard ECH<sub>2</sub>O probe (model EC-1

θ =.0936 \* mV - 38.0

for the shorter ECHAD probe (model ECHAD-10), where 0.07 and 0.0936 are the respective slopes and -93 and -38 are the respective slopes and -93 are the respective slopes and -93 are the respective slower of the respective slower of the three probability of the ECHAD Check are multiplied by 10,000 and -10, respectively (secrea slope; CPO, secrea instruct, 290). To change these values, turn the ECHAD Check are and press and bold down the right button (III) for two seconds. After two seconds, and while still bidding down the right button (III) for ght button. The screen should flash, and then how a three-digit number (070), followed by a 5 u" in the upper right corner. The S stands for ope, and u indicates up.

On this screen, the slope value can be adjusted up by pressing the left betton (I) (each depression results in a increase of 1, i.e., press the buston once and the slope will change from (II) to 1071. After adjusting the slope up (II) to 1071. After adjusting the slope up (III) to 1071. After adjusting the screen to another three-digit until the screen to the screen to the processing as similar technique as the up adjustment of the screen three thr

Pressing the right batton (III) gain will advanted the digitate in the State ware, where pushing the digitate in the State ware, where pushing the left batton (II) will storn the along settings. If the left batton (II) will storn the along settings in the left batton (III) supplied, the scene will return to the "St "or slope adjustment up scene will return to the "St "or slope adjustment up scene with the new callednois will not be stored. If IECHLO Check autionationally turn off before the new callednois on stored (father I minute with no button activity), the ECHLO Check will return with good the store of the store of the stored that the store of the stored will return will not be stored that the stored will return with good the stored that the stored will return with good the stored that the stored will return with good the stored that the stored will return with good the stored will return with good the stored will return with good to be stored wi

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