



FPR-E ZENO DataLogger Initialization and Calibration Worksheet



Station Data

Calibration Information

Calibration Date: _____ Calibration Location: _____

Station Information

Station Name: _____ Station Number: _____ (from B-44)

Hardware

FPR-E Datalogger / Load Cell Information

(Enter all info into CSSA – “Equipment Description”)

FPR-E Datalogger Serial #: _____ Load Cell Serial #: _____

Load Cell Constants (positive and/or negative numbers on the load cell):

C1: _____ C2: _____ C3: _____

Initialization (after installing FPR-E on support stage of previous edition F&P)

Firmware Information

(Enter all info into CSSA – “Equipment Description”)

Firmware Version and Date _____

COOP Station ID Number Entry (see explanation below = **) _____

C1/nnnn = 4-digit COOP stn # C2/nn00 = 2-digit state # and 00

Verify Station Number in Data Logger _____ (8-digits)

IMPORTANT: The above/below changes are temporary and will be lost if power is interrupted! Make sure to save COOP site numbers/other settings permanently @ ZENO Program Menu > (E) Save Parameters to EEPROM

Calibration

Gain Coefficient

(b1 at empty; b2 at 15.00 equiv. wt.)

(Enter Gain/Offset Coefficients into CSSA – “Equipment Description”)

$B = 30000/(b2-b1)$

b1 _____ b2 _____ | b2-b1 _____ Gain Coefficient B _____

Calculate the new gain coefficient “B” with $B = 30000/(b2-b1)$. Round to the nearest hundredth (two decimal places).

Offset Coefficient

(c3 not the same as load cell constant)

$C = -(c3+c4)$

c3 _____ c4 _____ | c3+c4 _____ Offset Coefficient C _____

If c4 is not = 0, then calculate the new offset coefficient “C” with $C = -(c3+c4)$. (Reminder: c3 is precipitation reading after gain coefficient “B” calculation and removal of the weights)

** COOP Station ID Number entry C1/C2 is strictly for Zeno datalogger initialization, it is not in the correct NCDC format. The Zeno datalogger will reformat the C1/C2 entries into the correct NCDC format when creating the data transmission file.