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Optical Rain Gauge Installation/Replacement Procedure

I. Purpose:

This procedure describes the steps necessary for installation of an Optical Rain Gauge (ORG). It is also used for replacement of an Optical Rain Gauge.

II. Cautions and Hazards:

- Before starting the following procedure, make sure that the datalogger data was recently uploaded to ADaM. Accessing the ZENO software configuration can lead to deletion of all old data.

III. Requirements:

- Optical Rain Gauge.
- Rain Gauge Calibration Report.
- Notebook PC with RS232/EIA422/Impulse adapter cable.

IV. Procedure:

If you are replacing the ORG, log serial numbers and configuration file differences on Excel-formatted replacement record forms (examples attached).

Note: When installing or replacing an Optical Rain Gauge, the Rain Gauge calibration and a new configuration version number must be entered in the ZENO.

A. Steps:

1. Mount the Rain Gauge and connect it to the SMET datalogger.
2. Connect a notebook PC to the SMET datalogger using the RS232/EIA422/Impulse adapter.
3. Advance or jump to record 8 in the Sensor Menu and enter the new calibration values.
4. Change the Configuration Version Number in the Data Output Menu to include the current date.
5. Save the changes to EEPROM.
6. Use the Test Menu to verify that the sensor reports near zero when no rain is falling and that it responds when fingers are waved in the light path.

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7. Download the new Configuration to the notebook computer using the naming convention SMETsss.txt, where "sss" is the datalogger serial number and "n" is an alphabetic version number.
8. Terminate the connection by selecting "Quit."
9. Disconnect the notebook computer and connect the logger to ADaM.
10. Download the new SMET ZENO configuration to ADaM.
11. Record the date, start-time, end-time, and any comments in the site operations log.
12. Enter the ORG serial number and calibration into the log book.
13. Send the ORG serial number and a copy or listing of the new SMET configuration file to the SMET mentor.

V. References:

1. Hart, Dick

VI. Attachments:

None.