



## MDN Thies Sensor Replacement, N-CON Collector

### Items needed:

- Replacement Thies sensor
- MDN Observer Form (MOF) for current week's sample

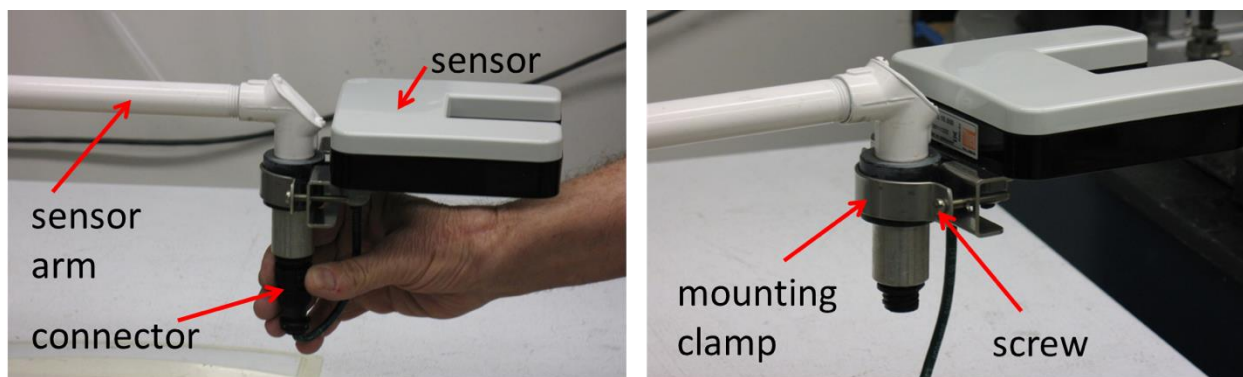
### Precautions:

When requesting a replacement Thies sensor, note whether there is a connector between the sensor arm and the sensor. If no connector is present (old style sensor), the sensor and sensor arm will both need to be replaced. The replacement sensor will include a separate sensor arm to simplify replacement of the sensor in the future.

### Instructions:

#### New Style Sensor:

New style sensors have a connector between the sensor and the sensor arm for easy replacement of the sensor.



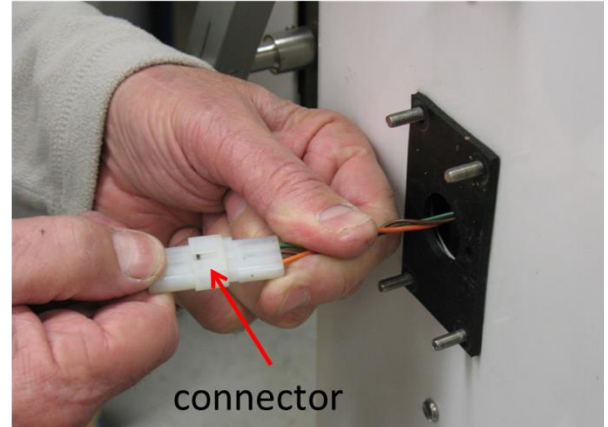
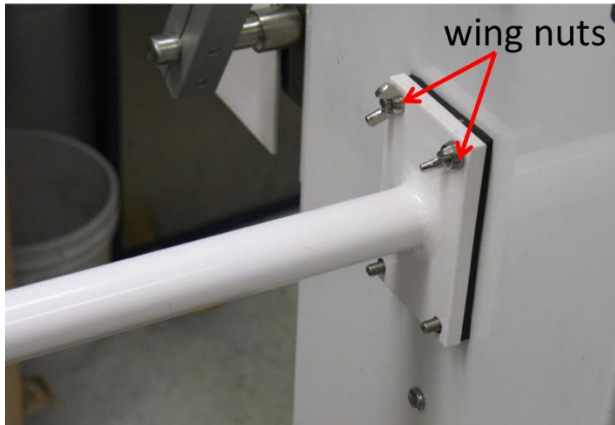
new style sensor

1. Turn off power to the collector.
2. Disconnect the sensor from its arm by twisting the connector.
3. Loosen the screws on either side of the mounting clamp to remove the sensor. Support the sensor so it does not fall when the clamp is loosened. Be careful not to drop the sensor.
4. Remove the old sensor and set it aside for return to the Network Equipment Depot (NED).
5. Install the replacement sensor by performing steps 1-3 in reverse order.
6. Record comment and date in Block 10 (**Remarks**) of the Mercury Observer Form (MOF).
7. Return the old sensor to the NED. Include a note describing the problem with the sensor.

**Old Style Sensor:**

Old style sensors are wired to the collector enclosure and do not have a connector between the sensor and the sensor arm.

- A. Turn off power to the collector.
- B. Remove the wing nuts that secure the sensor arm to the collector enclosure. Be careful not to drop or misplace the wing nuts as they will be re-used with the replacement sensor.
- C. Disconnect the sensor arm from the enclosure by pulling apart the two ends of the connector.



- D. Remove the old sensor and sensor arm. Set them aside for return to the NADP Network Equipment Depot (NED).
- E. Install the replacement sensor by performing steps A-C in reverse order. Note, the replacement part will include a connector between the sensor and the sensor arm. This will simplify replacement of the sensor in the future. The sensor is now of the “New Style” as described at the start of this document.
- F. Record comment and date in Block 9 (**Remarks**) of the Mercury Observers Form (MOF).

9. **REMARKS** *For example: equipment malfunction, extreme weather conditions, contamination, farming, burning, logging, leakage, etc.*

*Sensor replaced at 8:45 am on 07/03/2012.*

- G. Return the old sensor and sensor arm to the NED. Include a note describing the problem with the sensor.

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