

Technical Support Bulletin 2019-04

Tilt Sensor Hardware Change

October 22, 2019

Alert Level: IMPORTANT Instruments: Sediment Trap **Software Versions:** N/A

Hardware: New Tilt Sensor Hardware (Sediment Traps with serial numbers 14869 and higher)

Subject: New Tilt Sensor hardware does not provide heading data

Summary: Sediment Traps with McLane serial number 14869 and higher have new Tilt Sensor hardware. The new Tilt Sensor hardware does not provide compass (heading) data. Figure 1 below shows a data offload from the new Tilt Sensor.

Sediment Traps with the previous Compass/Tilt Sensor hardware are not affected by this change. If firmware is updated on a Sediment Trap that has the previous Compass/Tilt Sensor hardware, data offload will continue to display Heading data as shown in Figure 2. Contact mclane@mclanelabs.com with any questions.

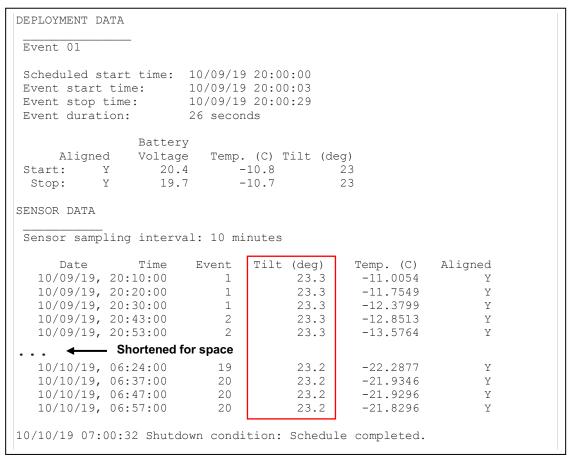


Figure 1: New Tilt Sensor, no Heading Reading

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```
SENSOR DATA
 Sensor sampling interval: 1 minute
                          Time, Event, Tilt, Hdng, Temp, Aligned
         Date,
   04/10/17, 21:01:01, 1, 92.1, 275.7, -18.4, 04/10/17, 21:02:01, 1, 92.3, 275.9, -18.2,
1, 92.3, 275.9, -18.2, 04/10/17, 21:03:01, 1, 92.2, 275.7, -18.2, 04/10/17, 21:04:01, 1, 92.4, 276.0, -18.2, 04/10/17, 21:05:01, 1, 92.4, 276.1, -18.3, 04/10/17, 21:06:01, 1, 92.2, 275.9, -18.3, 04/10/17, 21:07:01, 1, 92.4, 276.1, -18.4, 04/10/17, 21:08:01, 1, 92.2, 276.0, -18.4, 04/10/17, 21:09:01, 1, 92.5, 276.5, -18.4, 04/10/17, 21:10:01, 1, 92.3, 275.8, -18.5
                                                                                                Y
                                                                                                Y
                                                                                                 Υ
                                                                                                 Υ
· · · Shortened for space
04/11/17, 07:26:01,
                                     21, 92.4, 276.0, -17.8,
   04/11/17, 07:27:01,
                                         21, 92.3, 276.0, -17.8,
                                                                                                 Υ
                                         21, 92.3, 276.0, -17.9,
   04/11/17, 07:28:01,
                                                                                                 Υ
   04/11/17, 07:29:01,
                                         21, 92.5, 276.2, -17.9,
                                                                                                 Υ
04/11/17 07:30:35 Shutdown condition: Schedule completed.
```

Figure 2: Previous Compass/Tilt Sensor includes Heading

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