Re: MicroPoint II Installation Inspection Checklist  
Date: October 29, 2019

This document is intended to be used as a MicroPoint II installation inspection checklist.

The following items consist of the physical MicroPoint II installation characteristics. The following items should be verified upon initial physical inspection.

- MicroPoint cable at the Processor Module II, Link Unit II, and Termination Unit II should have minimum 6ft (1.8m) drip/service loop as shown in Figure 1. For additional information, please reference MicroPoint II Technical Manual: Chapter 4, Section 4.2.1, p. 4-4.

- MicroPoint cable should be securely affixed to the chain-link fence fabric every 9-inches (228mm) along the fence. Any loose or incorrectly placed cable ties as shown in Figure 2 need to be replaced. For additional information, please reference MicroPoint II Technical Manual: Chapter 4, Section 4.2.1, p. 4-4.

- MicroPoint cable should be mounted on the fence fabric as shown below in Figure 3 with the cable traveling around each fence post with an approximate 1” gap between the cable and the fence post. For additional information, please reference MicroPoint II Technical Manual: Chapter 4, Section 4.2.1, p. 4-5.
- MicroPoint cable terminations at the Processor Module II, Link Unit II, Termination Unit II and Splice Unit II’s should be greased liberally with Dielectric Grease at any point where the sense wires or braided shield is exposed. For additional information please reference MicroPoint II Technical Manual: Chapter 5, Section 51.1, p. 5.5.

- JB70A lightning/surge protection modules should be located near the GCM II-HD (system control room), and at the fence line where DC power and/or data is being inject to a Processor Module II.

- Splice Units are present at each swing style gate (double/single swing). For additional information, please reference MicroPoint II Technical Manual: Chapter 4, Section 4.2.2, p.4-5 & 4-6.

After the physical site inspection is complete, configuration data from each Processor Module II (PM II) will need to be inspected utilizing the UIIST II software.

Calibration: The calibration profile for each PM II (Cable A and/or cable B) will need to be inspected.

![Figure 4.1 Optimal Calibration](image)

![Figure 4.2](image)

![Figure 4.3](image)

![Figure 4.4](image)

![Figure 4.5](image)

**Figure 4. Calibration Profiles**
As showed in the figure 4.1 calibration example, an optimal calibration should have a relatively flat and consistent threshold (red line).

Calibration thresholds similar to figure 4.2, 4.3, and 4.4 will require corrective actions. In most cases a re-calibration can fix a poor calibration profile. If a re-calibration of the sensor cable does not address the poor calibration threshold, the sensor cable will need to be removed from the fence line, Sense Wires re-pulled, sensor cable re-installed on the fence line, then recalibrated.

For additional information on pulling the Sense Wires, please reference MicroPoint II Technical Manual: Chapter 4, Section 4.1.4, p.4-3.

For additional information on the calibration process, please reference Universal Installation Service Tool II Manual: Chapter 4 (MicroPoint™ II / MicroNet™ II Installation), Section 4.2.4, p. 33-35

Incremental threshold: The incremental threshold will need to be inspected on each PM II (Cable A and/or cable B). An over use of the Increment Threshold is typically the result of poor cable calibration.

---

Figure 5.1 – No incremental threshold changes

Figure 5.2 - Multiple incremental threshold change made in an attempt to fix issues in calibration

Figure 5.3 - Small incremental threshold made at double swing gate to reduce nuisance alarms caused by the opening and closing of the gate.