SIXNET Recommended Periodic Maintenance

All SIXNET hardware is designed for long term operation (10+ years) requiring little or no maintenance. Below is a list of items that SIXNET recommends checking on a periodic basis (typically once a year).

- **Analog I/O calibrations**: Though SIXNET's analog I/O circuitry is factory calibrated (traceable to N.I.S.T standards) and designed to be extremely stable; other factors (wire resistance, degradation of source signal, field sensor errors, etc.) can cause your analog signals to change over time. Use the SIXNET I/O Tool Kit's user calibration feature to make the necessary corrections to meet your ISO quality standards.

- **Screw terminal tightness**: This should be checked more frequently when stranded wire is used or when moderate to high vibration occurs. Stranded wire may tend to "creep" and periodic tightening will ensure proper electrical connections. Refer to the SIXNET user manuals for recommended maximum screw terminal torque. The use of powered screw drivers is not recommended because they can apply too much torque and damage the screw terminals.

- **Mechanical mountings**: Check that the SIXNET hardware remains secured properly in the enclosure. Loose mountings can lead to mechanical, wire or contact failures especially when the system regularly experiences vibration.

- **Enclosure Contamination:** Check that contaminants such as dust, oil, and water have not entered the enclosure that the SIXNET hardware is mounted in. If contamination is found then clean equipment and correct the source of egress.

- **Connector contacts**: No maintenance is required under normal operating conditions. All internal and user pluggable connector contacts are gold plated to resist corrosion and oxidation. All connectors are also mechanically secured from coming loose. In abnormal conditions (i.e. high humidity, corrosive gases, contamination, excessive vibration, etc.), check and clean connector contacts as necessary.

Note on battery-backed memory: No maintenance is required. All current SIXNET hardware which incorporates battery-back memory utilizes either a rechargeable battery cell or super-capacitor. In either case, the device recharges automatically when normal power is applied to the unit. Both systems are designed to function for the life of the product (10+ years).

Please contact SIXNET's application engineering department if you have any questions.

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