
4. Maintenance



Warning: To avoid hazards to personnel, ensure that all environmental isolation seals are properly maintained.



Caution: The control circuit contains electrostatic discharge (ESD) sensitive devices. Use standard ESD precautions when handling the control circuit. See Chapter 2, Installation for ESD details.

The instrument requires very little maintenance. There are no moving parts or mechanical parts subject to wear.

Maintenance

Without detailed knowledge of the environmental parameters of the application, surroundings, and process media, FCI cannot make specific recommendations for periodic inspection, cleaning, or testing procedures. However, some suggested general guidelines for maintenance steps are offered below. Use operating experience to establish the frequency of each type of maintenance.

Alarm Set Point Verification

Periodically verify the alarm set point.

Local Enclosure

Periodically verify that the moisture barriers and seals of the local enclosure is adequate and that no moisture is entering the enclosure.

Electrical Wiring

Periodically inspect the power, sensing element, and output wiring for signs of corrosion or deterioration.

Electrical Connections

Periodically inspect wire connections on the socket. Verify that terminal connections are tight and physically sound with no sign of corrosion.

Process Connection

Periodically verify that all seals are performing properly and that there is no leakage of the process media. Check for deterioration of the gaskets and environmental seals used.

Sensing Element

Periodically remove the sensing element for inspection based on historical evidence of debris, foreign matter, or scale buildup and appropriate plant shutdown schedules and procedures. Check for corrosion, stress cracking, and/or buildup of oxides, salts, or foreign substances. The heater and RTD thermowells must be free of excessive contaminants and be physically intact. Any debris or residue buildup could cause inaccurate switching. Clean the sensing element, as necessary, with a soft brush and available solvents (compatible with stainless steel).

