



Mopeka[®] Cathodic Sentinel

Testing Method	Monitored Cathodic Protection (MCP)	Traditional Cathodic Protection
Regulatory Compliance	Ensures continuous compliance with NFPA 58, EPA, and other regulatory standards through real-time monitoring and data capture.	Compliance is often manual, requiring periodic inspections, manual data aggregation, and manual reporting.
Monitoring & Data Access	Real-time, remote monitoring via cloud and mobile apps.	Requires physical inspections and periodic voltage checks. Manual form completion
Accuracy	High-precision voltage, current, and ground moisture readings are updated in real time.	Readings are manual, periodic, and subject to human error .
Ease of Installation	Simple installation on both new and existing tanks.	N/A – no fixed instrumentation left in place
Anode Life Expectancy	Allowing users to estimate approximate lifespan and replacement timing.	No automated predictions—requires manual inspection.
Connectivity	4G LTE CAT M1, NB-IoT, or Satellite for seamless global monitoring. Boosted Bluetooth option available for consumer self-monitoring.	No remote access; requires onsite testing.
Certification & Safety	Certified for hazardous locations (Class 1, Division 1, IP68).	Certification depends on the specific system used, often less advanced.
Cost Efficiency	Reduces costs associated with manual labor, inspections, and premature anode replacement.	Higher operational costs due to labor-intensive measuring, reactive maintenance, and travel requirements.
Customization & Scalability	Cloud-based solutions allow integration with various tank types and operational needs.	Limited flexibility; designed for specific tank systems with less adaptability.

**ACCURACY
ABOVE
EVERYTHING**



Key Advantages of MCP Over Traditional Methods:

Continuous, Remote Monitoring: Greatly reduces/eliminates the need for physical inspections and provides instant alerts for potential issues leading to a significant reduction in labor costs and liability over time.

1. **Enhanced Safety:** Reduces the risk to customers and businesses of a catastrophic incident remotely. Increases accuracy and reliability while minimizing potential effects of human process or equipment error.
2. **Reduced Operational Costs:** Minimizes labor costs and unexpected failures, extending tank and anode life.
3. **Regulatory Simplicity:** Automates data collection, organization, and storage; simplifying compliance with NFPA 58 and EPA guidelines.
4. **Reduced Liability** – Early detection of issues prevents environmental contamination and costly lawsuits.
5. **Lower Emergency Repair Costs** – Avoids unexpected system failures that require emergency response and downtime.
6. **Efficiency Gains** – Cloud-based monitoring enables better resource allocation, reducing waste in personnel and materials.
7. **Predictive Maintenance:** Reduces unexpected failures by graphically representing anode lifecycle and tracking real-time corrosion rates allowing users to estimate approximate lifespan and replacement timing.
8. **Additional Revenue Stream** – Multiple options to pass costs along to customers:
 1. Sell hardware and monthly service directly to the customer
 2. Build expenses into the price of a new tank
 3. HaaS/ CaaS (Hardware as a service/ **Compliance as a Service**) Monthly billing

Summary: Remote, real-time monitored cathodic protection reduces or eliminates manual inspections, leading to a significant reduction in labor costs, increased regulatory compliance, reduced exposure/ liability, and increased revenue over time.



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