THE WORLD LEADER IN CLEAN AIR SOLUTIONS

SAAFShield®
Reactivity Monitoring Technology

SAAFSHIELD®

FEATURES AND BENEFITS

AAF's SAAFShield® Reactivity Monitoring Technology allows users to take immediate action to protect expensive electronics by monitoring corrosion in real-time or on a periodic basis to determine equipment or material vulnerability to corrosion. The SAAFShield Detecting Unit can be used with the SAAFShield Reading Unit or SAAFShield Communications Module to display and trend corrosion data over time.

Product Features	Customer Benefits	SAAFShield® Detecting Unit +	
		SAAFShield® Reading Unit	SAAFShield® Communications Module
Dynamic Compensating Technology removes effects of noncorrosive environmental factors	• Stable corrosion readings • Increase 20% in accuracy of corrosion readings under ambient conditions	✔	✔
Report generation indicating corrosion rates	• Clear and simplified interpretation of data • Maintain historical information of your site	✔ via SAAFShield website	✔ via Building Management Software
Distributed Operation Mode	• Allows a single SAAFShield Reading Unit to link with multiple SAAFShield Detecting Units	✔	
Continuous Operation Mode	• 4/20 mA output • Networking capability with USB	✔ via USB	✔ via 4/20 mA
Local readout of corrosion information	• Real-time, short-span monitoring of the environment's corrosiveness • Reporting to allow immediate corrective action to protect expensive electronics	✔	✔
Standards-based reporting	• Provides air quality classifications (G- or S-class) based on ISA standards • Simplifies determination of equipment and material vulnerability to corrosion	✔ per ISA standards	✔ per ISA, RoHS, and museum standards
Quartz Crystal Microbalance (QCM) corrosion monitoring provides increased sensitivity 	• Instrument resolution within 1Å/24 hrs • Accuracy within ±0.5% of full-scale • Equivalence to sensitivity of 20 nanogram mass change on sensor accuracy • Extended service life of 4000Å (min. service life of 13 months in G1 environment for copper)	✔	✔

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