



EIE

Fuel Additive Injection System

EIE-ACC-01

Fuel Additive Injection System



- ASTM D2624, ISO 6297, IP 274
- It enables high-precision, real-time control of the conductivity values in aviation fuel pipelines, with a control accuracy of ± 10 ps/m from the set value.
- It enables continuous automatic measurement and automatic filling without manual intervention. Data can be uploaded to the DCS system, and the conductivity control parameters can be set independently.
- You can set upper and lower limits manually. The system will automatically trigger an alarm if the aviation fuel conductivity value exceeds these limits.
- The conductivity agent can be added directly without dilution. Utilizing the inherent fluidity of the pipeline, the agent is thoroughly mixed.
- The proportional pump and probe feature an intrinsically safe explosion-proof design, making them suitable for installation in hazardous areas.
- Measuring range: conductivity 0 to 2000 $\mu\text{S}/\text{cm}$, temperature -20°C to 60°C .



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Introduction

The Fuel Additive Injection System, developed through years of technological innovation by our company, enables automatic dispensing of aviation kerosene conductivity additives. Data can be directly uploaded to the DCS system, and users can independently set desired conductivity values. Featuring an intrinsically safe design, it is ideal for applications in hazardous environments.

The Fuel Additive Injection System consists of a conductivity measurement system, an automatic dosing system, and a control system. The conductivity additive dosing pump is configured with one in operation and one as backup, meeting users' requirements for continuous production and maintenance operations.





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Technical Features

1. It enables high-precision, real-time control of the conductivity values in aviation fuel pipelines, with a control accuracy of ± 10 ps/m from the set value.
2. It enables continuous automatic measurement and automatic filling without manual intervention. Data can be uploaded to the DCS system, and the conductivity control parameters can be set independently.
3. When the aviation fuel conductivity value exceeds the upper or lower limits, an automatic alarm is triggered.
4. The conductivity agent can be added directly without dilution. Utilizing the inherent fluidity of the pipeline, the agent is thoroughly mixed.
5. Proportional pumps and probes feature built-in explosion-proof design, suitable for installation in hazardous areas.
6. Measurement range: conductivity 0–2000 ps/m, temperature -20°C to 60°C .

Highly precise, real-time control of the conductivity value in aviation fuel pipelines, with a control accuracy of ± 10 ps/m from the set value.



Proportional pumps and probes feature built-in explosion-proof design, suitable for installation in hazardous areas.



Electrical conductivity set to 350 ps/m



The conductivity agent can be added directly without dilution. Utilizing the inherent fluidity of the pipeline, the agent is thoroughly mixed.



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EIE-ACC-01**SPECIFICATIONS**

Standards	
ASTM D2624, ISO 6297, IP 274	
Measurement of liquid under operating conditions	
Flow Range	0.2-7m/s
measure the temperature	-20~+60℃
Test Pressure	0~16bar
parameter	
Measuring range	0~2000ps/m
Accuracy	5...100pS/m ±5pS/m >100pS/m ±2pS/m
Explosion-proof Certification	BVS14ATEXE047X (measuring electrode) BVS14ATEXEmdxhigeo026X (Display Unit)
Measurement Reading Display	Measurement Range Standards
Allowed output load	0~500Ω
Connection Cable	Cross-sectional area of conductor at intersection: 0.5~1.5 mm ²
Cable diameter	6~12mm
attended mode	The probe is connected to the pipeline flange in a flange-type manner.
Electrical Interface	3/4"NPT
Total power	< 800W
Operating Enviornment	
Ambient temperature	Temperature range: -20℃ ~ +60℃, with heat tracing
Environmental conditions: Outer shell	Protection rating: IP66
Product Size	
Dimensions (mm)	800 x 600 x 2200 (width x depth x height in mm) modular unit
Weight	300 KG (weight of the control cabinet)