

Automated Overfill Protection System

The DIAMOND-SIS® Advantage in AOPS Applications

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AOPS Challenges:

High/low level events challenge the safe and reliable operation of terminals and tank farms. Liquid overfill, or high level, can result in vessel damage and/or release of hazardous chemicals to the environment. Low level can result in loss of suction to transfer pumps with the potential for pump damage and can pose significant hazards when floating roof tanks are used. It is important to implement the necessary safeguards to prevent these events.

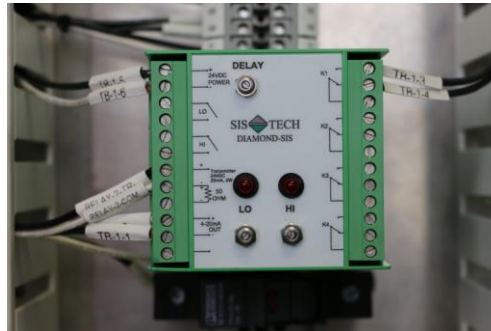


Advantages of DIAMOND-SIS® in AOPS Applications:

- Compliance with API 2350 and IEC 61511.
- Provides high and low level shutdown capabilities.
- Independent of the automated tank gauging systems.
- Provides local field indication, status and local field shutdown.

The **DIAMOND-SIS®** has over 2 million online hours without a dangerous failure or spurious incident.

DIAMOND-SIS®



The DIAMOND-SIS® Solution:

- Independent back-up system that complies with IEC 61508.
- 24VDC, 110VAC, 240VAC and is provided with redundant power supplies and/or UPS; solar powered options available.
- Field installation of the non-PE logic solver reduces implementation costs by 50% compared to safety PLCs.
- A complete documentation package can be purchased that covers the safety requirements specification, SIL verification, and the mechanical integrity requirements of ISA 84.01/IEC61511
- Has no obsolescence since it is manufactured from high quality robust electrical components.
- Provides health status with local indication and ability to repeat signals back to DCS.
- Communication options include hardwired, serial, or wireless.
- Quick delivery and low cost SIL 3 fault tolerant system.
- Easy to use and simple to maintain.

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