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Детектор дуги постоянного тока ADC100

ADC100
DC Arc Detector

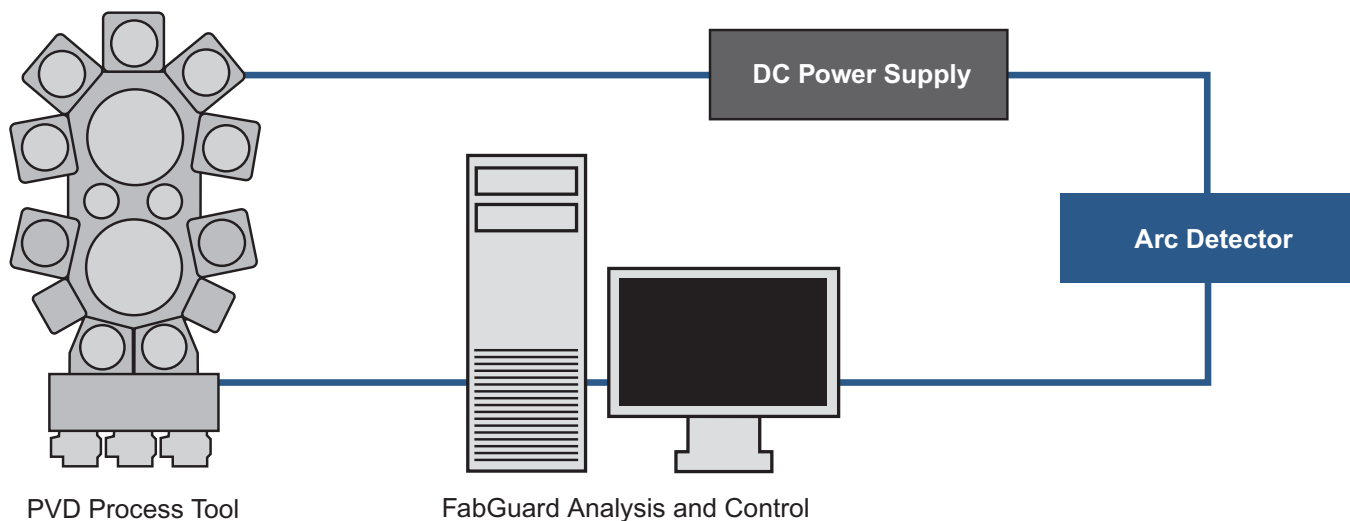
ULTRA-FAST DETECTION TO REDUCE PARTICLE CONTAMINATION

Plasma arcing in physical vapor deposition processes (PVD) can cause damage to the target, the film being deposited and the wafer surface. Particles generated during these arcs can reduce yields, significantly decreasing profitability. The INFICON ADC100 Arc Detection System captures these arcs in real-time, providing the ability to interrupt wafer processing on the tool, and notify process and equipment engineers of potential product and hardware damage.

The ADC100 Arc Detection System connects to your existing DC power generator to collect voltage and power information at sampling frequencies up to 250 kHz per channel. Since arcs are very transient in nature and occur as spikes, the ability to capture and analyze DC generator signals at high sampling frequencies is crucial to providing reliable detection capability.

FEATURES AT A GLANCE

- Software integration to the tool through FabGuard Sensor Integration and Analysis System
- Data collection at 250 kHz per channel
- Custom cables connect to most DC generators
- Detects arcs quickly with pre-defined analysis tools
- Also provides endpoint detection capability
- Worldwide application support

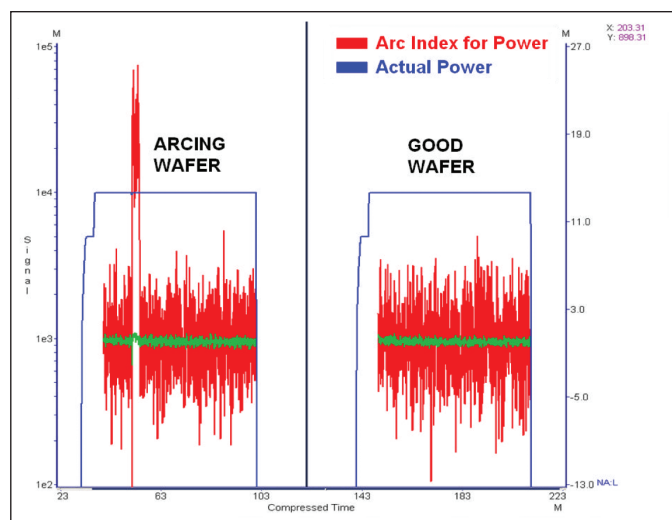


ANALYZE ARC EVENTS IN REAL-TIME

INFICON FabGuard® Sensor Integration and Analysis System processes high-speed data and performs simple or complex analysis to detect the occurrence of arcing as it happens. FabGuard synchronizes the arc data with other process parameters from the tool (including power, pressures and gas flows), providing the information necessary to identify and isolate potential arcing events.

TIGHTER CONTROL FOR BETTER YIELDS

Arcs detected by the ADC100 Arc Detection System correlate to particle excursions detected on the wafer surface. FabGuard allows you to put simple SPC limits on the arc indices, so that wafers can be tagged for off-line particle analysis.



Actual Arc Detection on an Aluminum PVD Process

SPECIFICATIONS

Applications	Arc Detection and Endpoint Detection
Maximum Sampling Frequency	250 kHz per channel, simultaneous
Channels per DC Generator	Two (Current and Power)
Channels per Computer	Eight
Generators per Computer	Four
Signal Cable Lengths	50 ft., 75 ft., longer upon request

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