

# OnSite ProDiag Fuse

Diagnostic of electrical condition in medium voltage fuses through early detection of its aging



OnSite ProDiag Fuse diagnoses the condition on de-energized medium voltage fuse component

## Benefits

- Improve protection of people and goods
- Mitigate shutdown risks
- Optimize total cost of device ownership

## OnSite ProDiag Fuse objective

Electrical power installations equipped with medium voltage switchgear with fuse protection shall be regularly checked (correct assembly, fuses electrical parameters, etc.) to confirm that their characteristics and performance comply with the original equipment and system specification.

The aim of [OnSite ProDiag Fuse](#) diagnostic service is to mitigate the possibility of process shutdown when operating under severe exploitation conditions because of premature aging of medium voltage fuse (destruction of fuse elements, thermal striker problems, etc.). Consequently, regular fuse diagnostic detects features outside of original technical specifications, as possible cause of effects like:

- thermal runaway (energy inefficiency)
- medium voltage fuse internal fire
- medium voltage fuse, switchgear, and/or electrical room destruction.

Regular diagnostic of medium voltage fuses features, embedded in [OnSite Condition Maintenance Essential](#) service, brings several benefits:

- early detection of activity above described phenomena not detected until the next preventive maintenance.
- improve the protection of downstream electrical distribution equipment, goods and people operating them.
- help to enhance reliability, mitigate unexpected shutdown and manage operating costs.
- help to extend switchgear lifespan optimizing its total cost of ownership.

A recommended practice to help to improve fuse protection function on switchgear is regular [OnSite Condition Maintenance Essential](#) embedding [OnSite ProDiag Fuse](#) diagnostic at least every 4 years under favourable operating conditions (for more details go to our White Paper “Strategies for Maintaining Electrical Distribution Equipment”).

# OnSite ProDiag Fuse

## Additional information



OnSite ProDiag Fuse manager is the proprietary software used by Schneider Electric Field Services Representatives

Electrical power installations often operates under conditions that are potential causes of medium voltage components premature aging such as:

- severe environmental conditions: humidity, strong temperature variations (condensation), bad ventilation, saline ambient, etc.
- harsh exploitations conditions:
  - electrical stress (high rush current, over-voltage), non performing protection index (IP)
  - mechanical stress (vibrations)
  - chemical stress (corrosive ambient, dust, pollution)
- uneven, weak or simply no maintenance.

[OnSite Condition Maintenance Essential](#) embedding [OnSite ProDiag Fuse diagnostic](#), assesses the condition of medium voltage fuses (Schneider Electric and competition) in medium voltage switchgear. It confirms if fuses perform or not according to brand-new original technical specification only available to our technicians.

Designed by Schneider Electric, [OnSite ProDiag Fuse](#) diagnostic service is conducted on de-energized equipment, delivering valuable information result of a crafted assessment:

- compartment inspection (oxidation, signs of overheating)
- internal resistance (mohm) metering following a proprietary protocol depending on ambient temperature

Data measured is recorded, and organized in [OnSite ProDiag Fuse](#) proprietary software. These results can be:

- within the acceptable range, so operating chain is in good condition
- not compliant, recommending curative actions.

[OnSite Condition Maintenance Essential](#) recommends repairs (only if needed) to comply with technical specifications, improving its protection, reliability and service life. The service is summarized in an exhaustive customer report with medium voltage fuses characteristics, measured data, and analytics with our expert insights.

Schneider Electric, as original equipment manufacturer, uses a proprietary software and diagnostic methodology for collecting data to deliver a world class medium voltage fuses condition assessment.



OnSite ProDiag Fuse digital micro-ohmmeter



Comprehensive report

*Please, consult with your local Schneider Electric Field Services Sales Representative or reseller for details (Statement of work) and on equipment serviceability.*