

hager RCBO-AFDD ARC Fault Detection Device User Guide

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hager RCBO-AFDD ARC Fault Detection Device



Product Information

The product being discussed in this manual is an RCBO-AFDD or MCB-AFDD. It is designed to protect electrical circuits from arc faults, residual current faults, overloads, and short circuits. The device has a test button and LED indicators to help with troubleshooting. The product is manufactured by Hager LTD in the United Kingdom.

Product Usage Instructions

- 1. If the AFDD has tripped, perform a diagnostic by following the steps below:
 - Switch off the AFDD.
 - · Press the test button.
 - Check the status of the LED using Table 1 in the manual.
 - · Check the status of the yellow flag.
- 2. If the LED is off, check the power supply voltage and/or connection to the AFDD. If voltage is okay, replace the AFDD. If voltage is below 216V or above 253V, assume an internal AFDD error.
- 3. If the LED is blinking yellow, assume an overvoltage issue and check the electrical installation and/or power supply.

- 4. If the LED is steady yellow, perform standard electrical troubleshooting and check for short circuits or overloads.
- 5. If the LED is steady red, assume a residual current fault (only for RCBO-AFDD) and switch off load. Perform standard electrical troubleshooting and contact technical support if necessary.
- 6. If the LED is blinking red/yellow, check fixed cables of the installation and appliances.
- 7. If the LED is blinking red, assume a parallel arc fault and disconnect all appliances. Measure insulation resistance and identify the fault. If necessary, replace involved appliances or perform firmware update.
- 8. If the LED is blinking red/green with yellow flag absence, assume AFDD has manually tripped. Check for short circuit or overload and perform standard electrical troubleshooting.
- 9. If the LED is blinking red/green with yellow flag presence, assume AFDD has manually tripped. Check for short circuit or overload and perform standard electrical troubleshooting.
- 10. If the LED is blinking yellow, assume an internal failure and contact technical support.

What to do if the AFDD has tripped?

Customer:

Date:

Circuit:

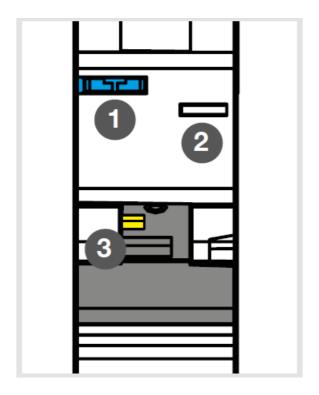
Connected load:

Safety

The outgoing lines may only be connected or disconnected in a de-energized state.



Perform a diagnostic

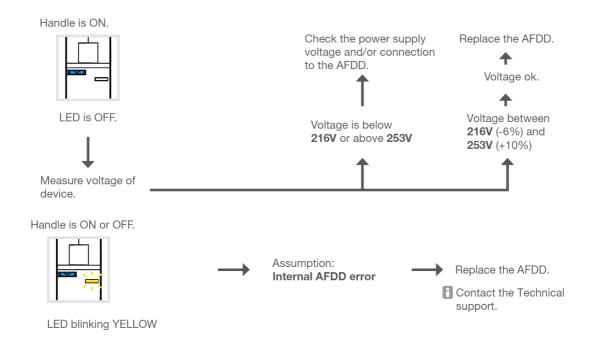


LED color-codes

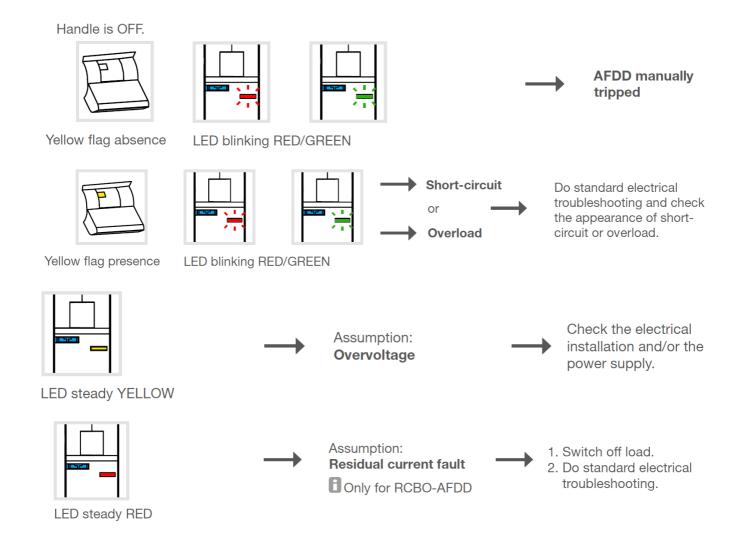
Indicator		LED Status
	LED OFF	AFDD is OFF or internal failure
海洪洪	Blinking RED/GREEN + yellow flag absence	AFDD manually tripped
輝洪洪	Blinking RED/GREEN + yellow flag presence	Overload or Short-Circuit
_	Steady RED	Residual current fault Only for RCBO-AFDD
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Blinking RED/YELLOW	Series arc fault
	Blinking RED	Parallel arc fault
	Steady YELLOW	Overvoltage
× 1 ×	Blinking YELLOW	Internal failure Contact the technical support

Troubleshooting

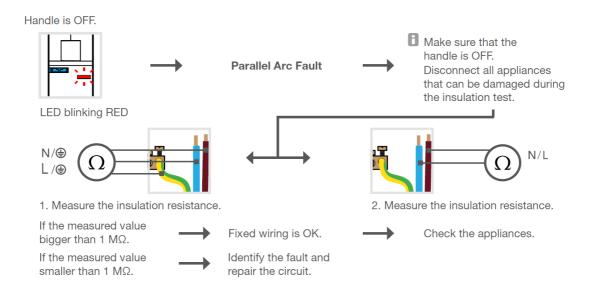
AFDD troubleshooting

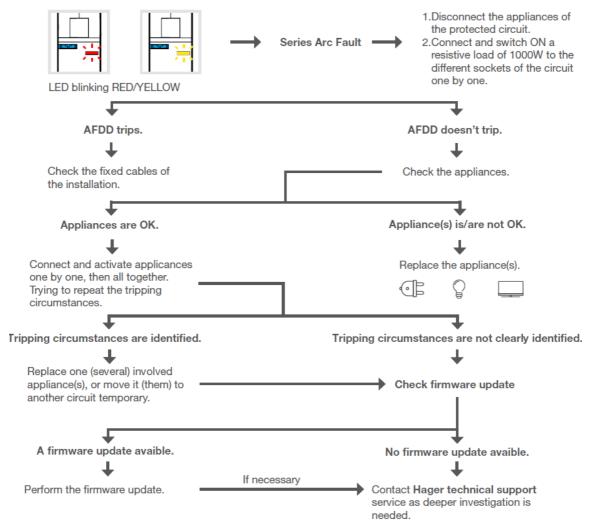


Standard electrical troubleshooting



Arc fault troubleshooting





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Documents / Resources



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RCBO-AFDD, MCB-AFDD, RCBO-AFDD ARC Fault Detection Device, ARC Fault Detection Device, Fault Detection Device, Detection Device

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