

hager ARR910U AFDD RCBO 10 Amp ARC Fault Detection Device User Guide

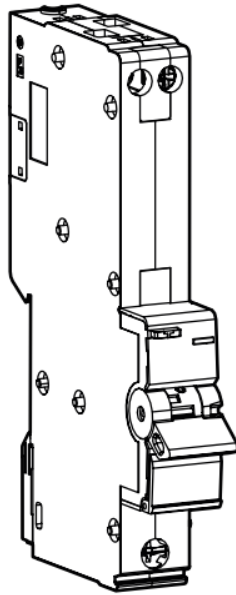
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hager ARR910U AFDD RCBO 10 Amp ARC Fault Detection Device



What to do if the AFDD has tripped?

Customer: _____
Date: _____
Circuit: _____
Connected load: _____

warning

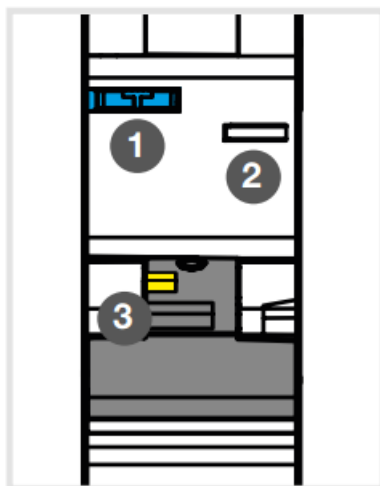
The outgoing lines may only be connected or disconnected in a de-energized state.

Perform a diagnostic









To test the product:

AFDD is switched off.

1. Press the test button.
2. Check the status of the LED (Table 1)
3. Check the status of the yellow flag.

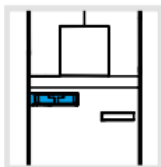


LED color-codes

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

AFDD troubleshooting

Handle is ON.



LED is OFF.

Measure voltage of device.

Check the power supply voltage and/or connection to the AFDD.

Replace the AFDD.

Voltage ok.

Voltage is below **216V** or above **253V**

Voltage between **216V** (-6%) and **253V** (+10%)

Handle is ON or OFF.



LED blinking YELLOW

Assumption:
Internal AFDD error

Replace the AFDD.

Contact the Technical support.

Standard electrical troubleshooting

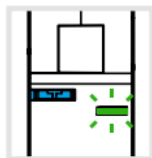
Handle is OFF.



Yellow flag absence



LED blinking RED/GREEN



AFDD manually tripped



Yellow flag presence



LED blinking RED/GREEN



Short-circuit

or

Overload

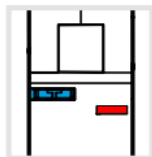
Do standard electrical troubleshooting and check the appearance of short-circuit or overload.



LED steady YELLOW

Assumption:
Overvoltage

Check the electrical installation and/or the power supply.



LED steady RED

Assumption:
Residual current fault

Only for RCBO-AFDD

1. Switch off load.
2. Do standard electrical troubleshooting.

Arc fault troubleshooting

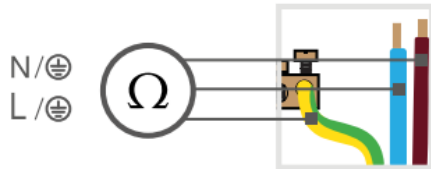
Handle is OFF.



LED blinking RED

Parallel Arc Fault

i Make sure that the handle is OFF.
Disconnect all appliances that can be damaged during the insulation test.



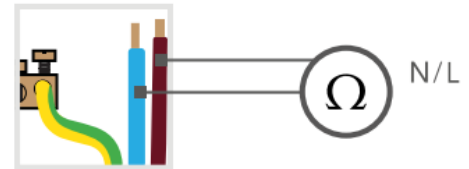
1. Measure the insulation resistance.

If the measured value bigger than 1 MΩ.

Fixed wiring is OK.

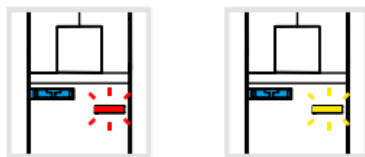
If the measured value smaller than 1 MΩ.

Identify the fault and repair the circuit.



2. Measure the insulation resistance.

Check the appliances.



LED blinking RED/YELLOW

Series Arc Fault

1. Disconnect the appliances of the protected circuit.
2. Connect and switch ON a resistive load of 1000W to the different sockets of the circuit one by one.

AFDD trips.

Check the fixed cables of the installation.

Appliances are OK.

Connect and activate appliances one by one, then all together. Trying to repeat the tripping circumstances.

Tripping circumstances are identified.

Replace one (several) involved appliance(s), or move it (them) to another circuit temporary.

A firmware update available.

Perform the firmware update.

AFDD doesn't trip.

Check the appliances.

Appliance(s) is/are not OK.

Replace the appliance(s).



Tripping circumstances are not clearly identified.

Check firmware update

No firmware update available.


If necessary

Contact **Hager technical support** service as deeper investigation is needed.

Hager technical support: +441952675689

technical@hager.co.uk

Documents / Resources



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DD RCBO 10 Amp Detection Device, Detection Device, Detection

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