

Contact us

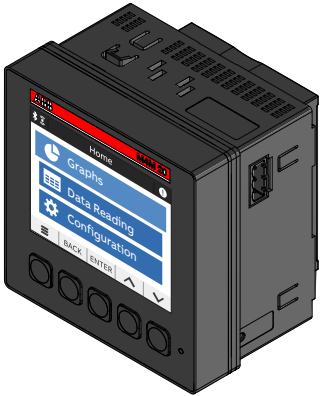
ABB S.p.A.
Electrification Business
Viale dell'Industria, 18
20010 Vittuone (MI) Italy
<https://new.abb.com/low-voltage>



Warning! Installation by person with electrotechnical expertise only.
Warnung! Installation nur durch elektrotechnische Fachkraft.
Avvertenza! Fare installare solo da un elettricista qualificato.

July 2019

2CSG445031D0201



Network analyzer
INSTALLATION MANUAL
M4M 20 Rogowski

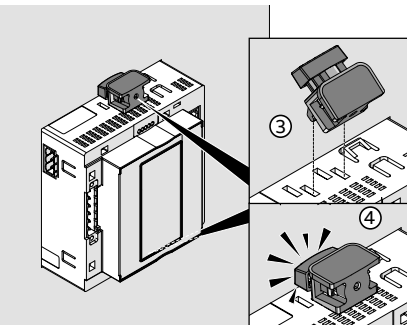
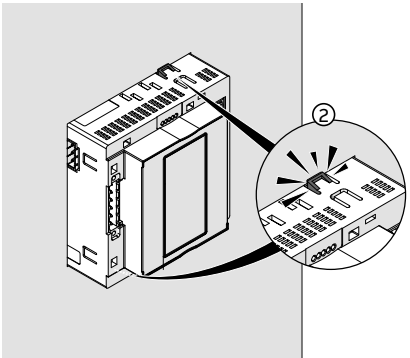
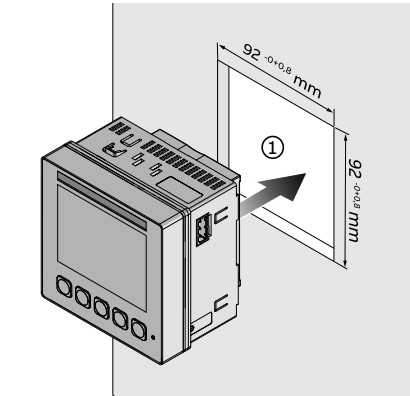
1.Packaging Content

- Network analyzer M4M 20 Rogowski
- Installation manual
- Calibration certificate
- 2 mounting clips
- Removable terminals for wiring

Please note that M4M Rogowski can only be used with ABB R4M-80 and ABB R4M-200 Rogowski coils.

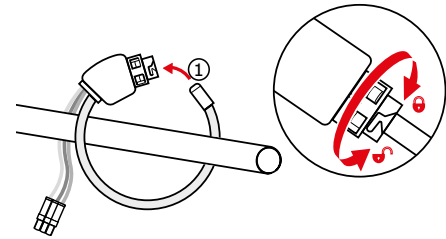
2.Mounting

2.1.Assembly

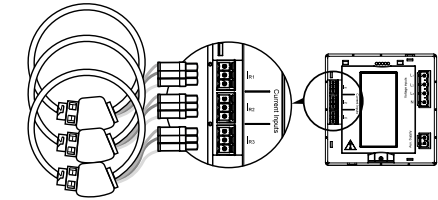


Finalize the installation through removable terminals.

2.2.Rogowski coil mounting

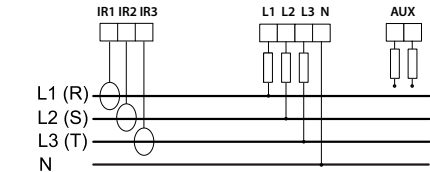


2.3.Rogowski coil connection

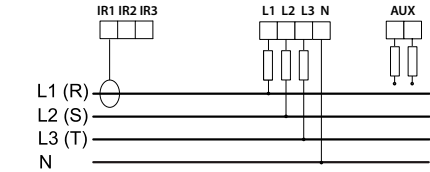


2.4.Wiring Diagram

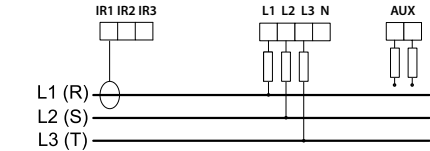
3-phase 4-wire network with 3RogCTs



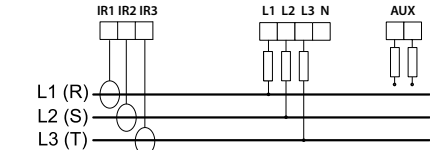
3-phase 4-wire network with 1RogCT



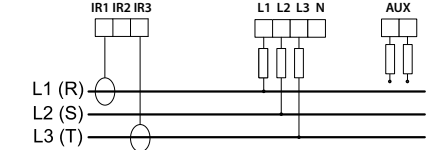
3-phase 3-wire network with 1RogCT



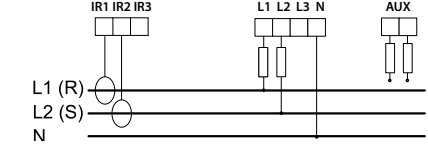
3-phase 3-wire network with 3RogCTs



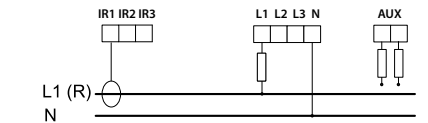
3-phase 3-wire network with 2RogCTs



2-phase 3-wire network with 2RogCTs



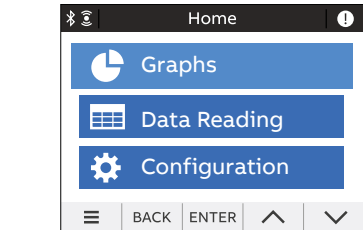
1-phase 2-wire network with 1RogCT



3.Symbol instructions

Button	Function
	Shortcut to Home/Favorite/Notifications pages.
	Return to the previous page.
	Confirm the selection
	Increase or decrease the value. Keeping pressed will increase the speed of the number variation.
	Move cursor up or down.
	Move cursor to the left or to the right.

4.Access to device



Access to device is done through the five buttons under the screen.

The home page is divided in 3 sections:

Sections	Description
Graphs	Graphical representation of the main parameters.
Data Reading	Values of the main parameters.
Configuration	Setup of the device.

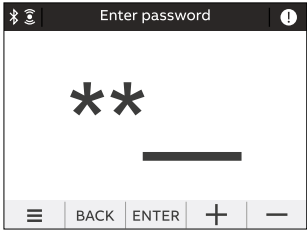
5.First Commissioning

To start to use the analyzer it is mandatory to configure the basic setting (password, language, type of network and VT ratio).

No transformation ratio has to be set for Rogowski coils on M4M 20 Rogowski.

5.1.Setting password

The password is composed by 5 numerical characters. In order to select each numerical character, it is necessary to use + or - and confirm every selection with ENTER.



Default password is 00000. At first use, the password shall be defined. In order to disable the password, please enter 00000.

5.2.Setting language



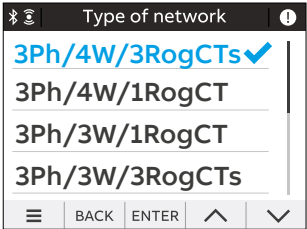
Select the desired language for the display among the ones available.

5.3.Type of network



Select the type of network among the following ones:

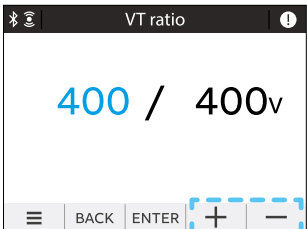
Parameter	Description
3Ph/4W/3RogCT	3-phase 4-wire+3RogCTs
3Ph/4W/1RogCT	3-phase 4-wire+1RogCTs
3Ph/3W/1RogCT	3-phase 3-wire+1RogCT
3Ph/3W/3RogCT	3-phase 3-wire+3RogCTs
3Ph/3W/2RogCT	3-phase 3-wire+2RogCTs
2Ph/3W/2RogCT	2-phase 3-wire+2RogCTs
1Ph/2W/1RogCT	3-phase 2-wire+1RogCT



5.4.Voltage Transformer ratio



Enter the voltage transformer ratio (both primary and secondary) manually with + or -.



Confirm selection with ENTER



Confirm selection with ENTER

In case of direct insertion, 400/400V value shall be used.

