

Quickstart EGX300

To be done before going to site

Hardware / cabling prerequisites

- Use an EGX300 (part #EGX300).
- Use a 24V DC power supply (part #ABL8MEM24006).
- Use a Cat. 5/Cat. 6 cable for EGX configuration cable.
- Use a shielded Modbus cable (part #VW3A8306R30). Quantity and length of cable will depend on the installation and number of slave units.
- Use a 120Ω resistor for line terminations (in case of daisy chain).

Set-up prerequisites

- Use the static IP address that will already be allocated to the EGX300, from the customer's IT department. This will help with preconfiguring the EGX300 to suit their network and save time on-site, when changing the IP addresses.

Documentation (available on EcoXpert portal and Schneider Electric website)

- EGX300 installation guide (DOCA0039EN-00).
- EGX300 user guide (DOCA0040EN-00).

On-site installation and commissioning

Physical wiring

- Check the dip-switch setting (2-wire/4-wire) on the EGX300.
- Check the TX-RX bridge (in case of 2-wire bridge TX+ to Rx+ and Tx- to Rx-).
- Check the Modbus wiring of all equipment.
- Connect termination resistor at the end of the line (in case of daisy chain).

Set-up menu

Ethernet and TCP/IP

- Connect to EGX300 (this will require you to modify your computer's IP address, in order to make it compatible with the EGX's. For example, your PC can be at: 169.254.0.1 with subnet mask 255.255.0.0):
 - the **default IP address** is 169.254.0.10
 - the **default user ID** is "Administrator" and the **password** is "Gateway"
- Change the IP address as required when connecting to the EGX300:
 - you can check/tick **obtain an IP address automatically** for DHCP
- Check the **subnet mask**.
- Check and modify the **user name** and **password**, and **access levels** if necessary.

Serial port

- Configure the **physical interface** (RS485 2-wire/4-wire).
- Configure **baud rate** and **parity** (ensuring this is reflected on the serial slave devices/power meters).

Remote device connection

- Add remote TCP/IP devices, required to be mapped into EGX300 for logging and monitoring purposes.

Device list

- Discover devices by using the **Discover** function. It will automatically detect the connected devices.
- You can also manually add connected devices (on **Modbus serial** or **modbus TCP**): under **Device discovery**, ensure that "**Status: Valid**" displays for each device. This validates the communication between the EGX300 and the device. If there are failures, you will need to verify wiring, parity, speed settings, 2-wire/4-wire switch settings, etc.
- You can also change the device name to reflect the load type and location/zone.

Note

Adding a third party device is possible with the help of Custom device generator. Please refer to EGX300 user guide for assistance.

Device logging

- Configure **Data logging** (note: device logging pages and dashboards are available only if data logging is enabled):
 - set the **Logging interval**
 - enable **Logging**
 - set the **Logging topics**.

Device log export

- Select the **Transport** method for **Data export**: **Disabled**, **Email**, **FTP** or **HTTP**.
- Select the **Schedule of export**.
- Configure **FTP server**, if necessary (only one FTP site possible).
- Configure **Recipient's email**, if log is to be emailed out (maximum of three are possible), select if the email will be **incremental**.

Date and time

- Manually configure **time**.
- Configure **time zone offset**.
- Configure **daylight saving time**, if applicable to your time zone.
- If **network time sync** is possible, enable **network time synchronisation**: configure **NTP server**.

User accounts and web page access

- Set the **User accounts** with access level to control the access and modification on EGX300.
- Set the **Access control** to the menu and pages for different accounts.

Preferences

- Set the **equipment name** of the EGX300, if necessary, to reflect the site name.
- You can also set the frequency of **real time sampling** and **communication check**.

Final verification

Once the set-up and commissioning are complete, it is best to verify that everything is working.

In order to check this, please follow the steps outlined below:

- Go to **Monitoring tab > Real time data > Single device page**, check if individual meters are set-up and displayed.
- Check if **Trending** is working.
- You can also check the **Dashboard** function, to confirm if the **Device logging** has been activated correctly.

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