AKONET.cloud

Akonet.Edge device configuration
Device detail

Shows the detail of each device as well as a summary of the data captured and allows adjusting the operating parameters.

- **Hide / Show Details:** Shows / hides the device details.
- **Displays the Akonet.Edge performance values**
- **Indicates that the Akonet.Edge is charged**
- **Opens the parameter refresh menu, search for equipment or check MODBUS line (see pages 36-37).**
- **Indicates whether there are any active alarms, if blank, there are no alarms.**
- **When clicking access is gained to the alarm details**
- **By passing the mouse over the indicator, it displays the date and time of the last synchronisation and connectivity type.**
- **Changes the displayed period**
- **Exports saved data within the selected time frame**
- **Displays a summary of the data sent and received (Ethernet and GPRS).**
- **Accesses the editing of the device data**
- **Displays the device details, an image (customisable) and its location on the map.**
Device configuration

The Akonet.Edge device has a series of parameters to configure its operation according to requirements, these parameters can be modified through AKONET.cloud by accessing the device details and by clicking on the "Parameters" tab.

There are two types of parameters:

- The parameters associated with akonet.cloud
- Parameters associated with the device

Changes to the parameters associated with akonet.cloud have immediate effect, while the parameters associated with the device generate a task that runs during the next transmission (which varies depending on configuration).

If, upon altering a parameter, there is a pending task, the change is added to that task, otherwise it generates a new task. The list of tasks and their status can be consulted in the backlog section (See akonet.cloud User’s Guide).

The parameters are organised into 5 groups:

- Datalogger (dlG)
- Communication (tx)
- Info (PA)
- Alarms (Al)
- Cloud alarms (c-AL)
- Log (dlG)
Datalogger (dlG)

**Data logger week initial day:** Sets the day of the week on which a new log block is started.

**Continuous logging interval:** Sets the frequency interval with which the Akonet.Edge records data from the connected devices, i.e. how often the device measures and saves the data.

- **1 minute:** Saves the temperature and humidity data every minute.
- **5 minutes:** Saves the temperature and humidity data every 5 minutes.
- **15 minutes:** Saves the temperature and humidity data every 15 minutes.
- **30 minutes:** Saves the temperature and humidity data every 30 minutes.
- **60 minutes:** Saves the temperature and humidity data every 60 minutes. This option does not comply with the EN 12830 standard.

Communication (tx)

**Type of Communication:** Determines the type of communication between Akonet.Edge and Akonet.cloud:

- **Ethernet:** Requires the Akonet.Edge to be connected to network with Internet access (RJ45). By default, configuration is through DHCP, for configuration through static IP, see page 6 for more details.
- **GPRS:** You need a SIM card with an active data plan for GPRS connectivity. This option requires additional configuration, please refer to page 6.

Password (PA)

**Console access password:** allows you to set a password to access the configuration console (see page 5).

Alarms (AL)

**Low storage availability for the database warning:** Allows you to define what usage percentage the database is allowed before activating the "low database space" alarm.

**Low hard drive free space alarm:** Allows you to define what percentage of hard drive usage is allowed before activating the "low drive space" alarm.

**RAM usage limit alarm:** Allows you to define the amount of RAM that can be used before activating the "Low RAM" alarm.

Cloud alarms (cAL)

**Severity for communication error:** Sets the severity of the communication error alarm.

**Severity of the low hard drive space alarm:** Sets the severity of the "low drive space".

**Severity for RAM usage limit alarm:** Sets the severity of the "low RAM" alarm.

**Severity for low database space availability alarm:** Sets the severity of the "low database space" alarm.

Severity levels:

- **Unassigned:** Severity unassigned, the alarms are displayed in grey.
- **Low:** Low severity, the alarms are displayed in yellow
- **Medium:** Medium severity, the alarms are displayed in orange.
- **High:** High severity, the alarms are displayed in red.
Advanced configuration of the device

The advanced configuration allows you to adjust parameters related to the connectivity of the device.

**Ethernet**
Defines the configuration of the device’s Ethernet connection. If the IP assignment is configured as DHCP, nothing else needs to be configured.

If it is configured as static, the fields indicated need to be filled in, consult your network administrator.

**WIFI**
Configuration of the WIFI access point generated by the Edge itself. This access point allows you to configure various parameters of the device using a mobile device.

**GPRS**
If you choose this type of communication, fill in the fields with the data provided by your GPRS operator.
It requires the installation of a SIM card with GPRS connectivity.

**Línea MODBUS**
AKONet.Edge has a local line (485) that enables the connection of up to 25 devices and the linking of as many AKO-80080 devices as necessary.
The AKO-80080 device allows up to 25 devices to be connected via a MODBUS network and linked to an AKONet.Edge via the Ethernet network.
Local web console

The web console allows you to connect to Akonet.Edge locally and change its configuration if necessary.

From the web console, you can:
- View / Edit the Ethernet configuration
- View / Edit the GPRS configuration
- Change the Ethernet/GPRS connectivity configuration
- Change parameter configuration
- Search for connected devices
- Check Modbus connectivity
- Update the firmware
- Perform configuration and connected device list (only Modbus addresses and device lists) backup

Accessing the console

The web console can be accessed in two ways:

**If you know the Akonet.edge IP address**

From a computer or mobile device:
- Open a web browser (Chrome, Mozilla, Safari, etc.) and input the IP address assigned to the akonet.edge in the address bar.
- Input access data USER: Edge ; PASSWORD: admin*2019.
- This will open up the configuration console.

**If you don’t know the Akonet.edge IP address**

From a computer or mobile device:
- Open the WIFI configuration and find the network named “EDGE-xxxx” (xxxx being the last 4 digits of your Akonet.Edge serial number).
- WIFI password: "edge1234"
- Enter the following address in the web browser: "10.0.0.1"
- Input access data USER: Edge ; PASSWORD: admin*2019.
- This will open up the configuration console.

* The computer or mobile device must be connected to the same network as the Akonet.Edge
View / Edit the Ethernet configuration
Clicking on "Ethernet" brings up the current IP address and the network configuration (by default DHCP), clicking on "Edit" allows you to modify the network configuration (DHCP or Fixed IP).

View / Edit the GPRS configuration
Clicking on "GPRS" brings up the current GPRS operator configuration, clicking "Edit" allows you to modify the configuration, for more information get in touch with your GPRS provider.

To activate GPRS connectivity, go to the next section.

Change the Ethernet/GPRS connectivity configuration
By default, Akonet.Edge is factory-configured for Ethernet connectivity. To change to GPRS, click on "Parameters" and change the parameter "Tx type" from Ethernet to GPRS.

Make sure you correctly configure your GPRS operator.

Change parameter configuration
Clicking on "Parameters" allows you to modify the parameters related to Akonet.Edge. The ones that relate to Akonet.cloud can only be changed from Akonet.cloud. For more details, go to page 4.

Search for connected devices
The local console includes a tool for searching for devices connected to Akonet.Edge. To open it, click on "Search for Devices", select the MODBUS address range to search for and click on "Submit". After a few seconds you will see the detected devices.

The detected devices appear in Akonet.cloud as devices pending activation.
Check Modbus connectivity
Clicking on "Modbus test" starts the test to check Modbus connectivity. Input a valid Modbus address and select the test duration, data packets will be sent to the defined Modbus address and responses will be logged, a counter will display the sent packets (counter) and the lost packets (errors).

Update the firmware
If, for any reason, technical support asks you to update the Akonet.Edge firmware, click on "Update" and select the file that support has sent you, the update will start shortly.

Wait until the Akonet.Edge fully resets, do not interact with it or with the web console until the whole process has finished.

Backups
The system allows configuration and connected device lists (only Modbus addresses and device lists) to be saved and loaded as backups.
Save: Clicking on "Backup" generates a backup file called backupEdge.bak and saves it in the Download folder.
Load: Click "Restore" and select the file to load. Upon completion a "Restore OK" message is displayed.
We reserve the right to supply materials that might vary slightly to those described in our Technical Sheets. Updated information is available on our website.