How to Connect to a DCB-4.0 (by 101solutions) for Remote Monitoring?

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Remote monitoring and access

· Making a VPN connection via the web portal

· Create your (combined) alarm notifications

· Create user accounts with various authorizations

· Readouts with high frequency (1x sec)

· Links via APIs to other back office systems

· Available with or without a SIM card

· The system is delivered plug-and-play and configured by 101Solutions for the controller you want to monitor. If necessary, the configuration is adjusted remotely (free of charge).

Step 1: Initial Setup

1. Connect the antenna and power up the DCB-4.0 unit.
2. Visit www.woodward.101connect.nl and log in using the credentials provided by 101 Solutions.
3. Once logged in, configure your DCB-4.0 device as follows:

Step 2: Configuring Interfaces

Navigate to the Management tab to set up the interface you want to connect. You will find a list of available interfaces to configure:

For LAN Setup:

- Define the following parameters:
  - IPv4 mode
  - IP address
  - Netmask
  - Gateway (if necessary)
  - Primary and secondary server
  -

For Ethernet Interface Setup:

- Configure:
  - IP address
  - Port

For Serial Interfaces Setup:

- Specify:

- Type (RS232 or RS485)

Step 3: Monitoring Status

After configuring the interfaces:

- Check the Last online time and network status in the Dashboard section.
- If the GPS signal is available, the device's location will also be visible on the dashboard.
- The dashboard will display the defined measurements and data points being monitored.

Step 4: Configuring easYgen-3000XT

To receive data from the easYgen-3000XT, configure the device to use Modbus protocol 5016, which is the communication protocol used by 101 Solutions.

Step 5: Viewing Data and Reports

- Data Section: View the configured data points and check which ones are actively sending values.
- Report Section: Download various data, alarm messages, and system properties in multiple formats.

Step 6: Managing Alarms

- Messages Section:
  - View an overview of your customized alarms.
  - Define alarm rules and specify phone numbers to be contacted in case of an alarm.

VPN Connectivity Option

The DCB-4.0 offers an optional VPN connection for direct communication with the easYgen device. Key details about VPN:

- VPN is activated via an application and creates a secure, direct connection to the easYgen.
- This feature can be remotely activated for a one-time cost of €50.
- Note that VPN generates significant data traffic. For VPN users, a 1000MB SIM card is used instead of the standard 3MB SIM card.

SIM Card Options

Option 1: 101 Solutions SIM Card

- 101 Solutions uses Telenor SIM cards, which offer robust connectivity by utilizing multiple providers in one country.
- In Germany, for example, Telenor SIM cards automatically connect to the strongest available network (O2, Vodafone, or Telekom Deutschland).
- Using the 101 SIM card ensures that connectivity issues can be diagnosed and resolved by 101 Solutions.

Option 2: Customer-Supplied SIM Card

- Customers may choose to use their own SIM card.
- If using a customer-supplied SIM card:
    - The cost of purchasing a SIM card is waived.
    - The monthly fee will cover only hosting the web portal, not SIM card usage.
    - Note: Diagnosing connectivity issues is limited if the customer's SIM card is used.

Summary

By following these steps, you can successfully connect and configure the easYgen-3000XT with the DCB-4.0 for seamless remote monitoring. Should you have any questions or encounter issues during setup, please reach out to 101 Solutions for support.

Attachments

- Remote-monitoring-genset-Woodward.pdf (2.83 MB)