

We energize the best solutions



Power of simplicity

Datasheet 2019 v1.0

- > Simple - Pairing with Modbus devices
- > Clear - Data insight, the way you want it
- > Time saving - Data easily measurable
- > Carefree - Save data locally for 5 years
- > Set up the monitoring tool yourself or let Controlin take care of it for you
- > Plug, play & connect

Product description

With the SKD-Byte it is possible to read different meters locally using only one component. Through Modbus RTU the collected data from the linked meters is communicated to the SKD-Byte. This (historical) data is then converted by the SKD-Byte and presented in a personalized dashboard, which can be accessed locally thanks to a built-in ethernet port. The dashboard which can be designed by you or Controlin, makes it possible to read data easily.

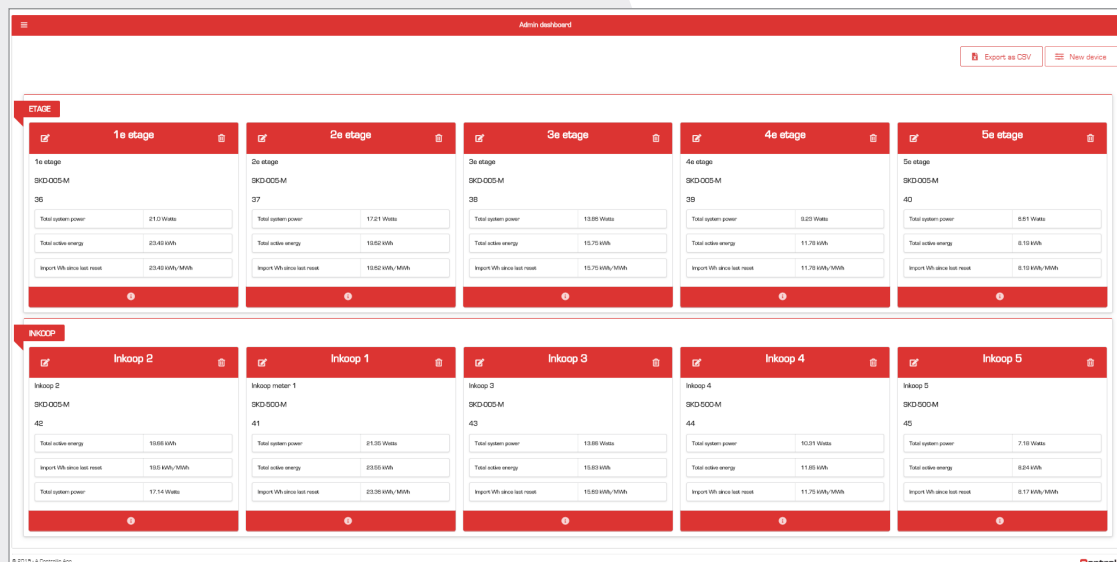
Will this DIN rail monitoring tool (consisting of 2 modules) be part of your energy management?





Functionality

energy in control



All functionalities at a glance

- Up to a maximum of 127 meters can be connected to the SKD-Byte Modbus RTU
- Space for three free lines of text per connected meter, for example: object name and location
- Object-oriented configuration using Modbus mapping of the SKD meters
 - SKD meters with a maximum of 20 parameters each
 - A generic meter with a maximum of 100 parameters
- Monitoring tool synchronizes directly from the moment the SKD-Byte is started
- Collect data from connected meters in timestamps of 5 minutes
- Visualize all data in the monitoring tool
 - Current values and trending data
 - Diagnostic page with insight into error messages, processor load and free memory available on the USB stick
- Type (syntax) error messages
 - Duplicate Modbus addresses
 - Removed USB stick
 - Meters with dual names
- Automatically saves collected data on the included USB stick (128 GB)
- Exports collected data to CSV or PDF format
- Reports include the uploaded logo and the stored customer data
- Saves collected data for up to 5 years, following this, the FIFO principle is applicable



Connectivity

energy in control

All communication options at a glance

- Modbus RTU based on RS485
- Modbus TCP (under development)
- Ethernet protocols to allow the monitoring tool to run on the SKD-Byte
 - Direct communication between the SKD-Byte and a laptop or other screen


Device
Add a Device

Device information

Name *

Controlin

Description *

Glasblazerstraat 1

Current address *

15

New address *

17

Device type *

SKD-005-M

+ Add Generic type

Group *

KEUKEN

Tag

Parameters

☐ Phase 1 volt amps reactive

☐ Phase 2 volt amps reactive

☐ Phase 3 volt amps reactive

☐ Phase 1 power factor

☐ Phase 2 power factor

☒ Phase 3 power factor

☐ Phase 1 phase angle

☒ Phase 2 phase angle

☐ Phase 3 phase angle

☐ Average line to neutral volts

☒ Average line current

☐ Sum of line currents

☒ Total system power

☒ Total system volt amps

☒ Total system VAR

☐ Total system power factor

☐ Total system phase angle

☐ Frequency of supply voltages

Parameter 1 *

Phase 2 phase angle

Parameter 2 *

Total system power

Parameter 3 *

Total system volt amps

+ Add





User Management

energy in control



Settings

Company profile

Browse

Bestand kiezen | Geen bestand gekozen

Upload user logo

Username

Controlin

Password

Password

Confirm Password

Address

Glasblazerstraat 1

Email

sales@controlin.nl

Telephone

0180330522

Save

Network settings

! RESTART BROWSER AFTER SAVING FOR CHANGES TO TAKE EFFECT.

IP address

IP Address

Netmask length

24

Default gateway

Default Gateway

Save

Serial settings

19200 8 N 1

Time interval (seconds)

30

Rights levels for all user types at a glance

Rights level 1 – Admin

- Set up the IP address
- Set up the parameters per meter
- Set up the user management for all rights levels
- Furthermore, the admin has the same rights as the other user levels

Rights level 2 – User

- Read the meters that are linked to the SKD-Byte
- Generate the reports and view all meters by using simple selection
- Management of all sub users

Rights level 3 – Sub user

- Read the meters selected by an admin or a user
- Generate reports and view the meters selected by an admin or a user

SKD-Byte - Energiemanagement monitoring tool | Datasheet v1.0

Raspberry Pi



Specifications

energy in control

Hardware

- Mounting: DIN rail
- Number of ports: 1 ethernet (10/100) • 2 USB (type A)
- Communication: Modbus RTU (RS485), Modbus TCP (under development), USB, ethernet
- Supply: 9-28Vdc
- Dimensions: 62 x 90.5 x 36.3 mm
- Protection class: IP20
- Ambient temperature: 0 °C to + 50 °C

Dimensions & connection diagram

