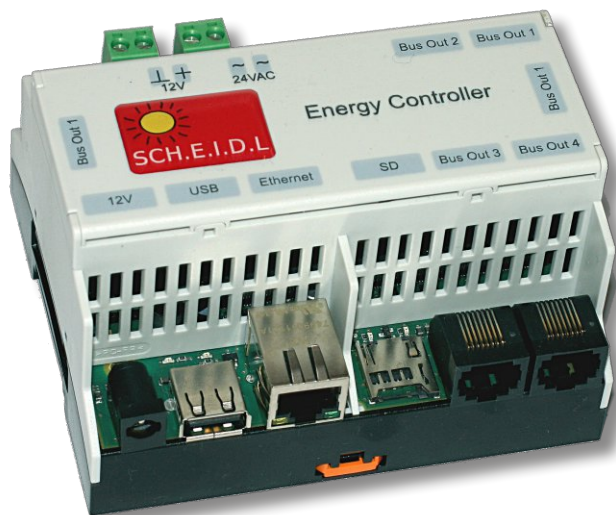


Energy Controller Datasheet Multi-Datalogger

Web-Monitoring of Environmental, Thermal and Electrical Input



The SCH.E.I.D.L Energy Controller as Multi-Datalogger is a powerful measuring platform to monitor all types of building, storage, garden as well as systems for heating or electrical energy.

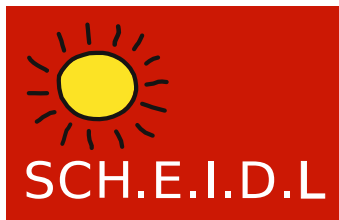
Various types of sensors are available and can be connected wireless or cable connected.

The operation and visualization of the entire system is easily reached from the network and PC in standard browsers, even on tablet or smartphone.

In addition to running as a data-logger there are also steering controllers available for various applications.

Operation and Use

- To monitor environmental conditions within buildings or outdoor, e.g. museum, classic car or food storage, garden center or IT
- To analyze thermal and electrical systems with several heat generators or consumers, e.g. solar heat, cogeneration, photovoltaics, heat pumps, boilers, or heat distribution
- Visualization of multiple air temperatures, humidity, power meters, trends, conditions and hot water tanks, by a lot of sensors
- Long term recording (monitoring) for several seasons including a data backup
- Web remote access without installing any software, sending alarms in case of any problems via email or SMS
- All Data is stored inside the device, no data is sent to a cloud or portal server
- Security is ensured on military standard by several protected access levels
- Easy extension of new wireless and wired sensors just by hot-plugging
- Support of industry standard, wireless protocol for a mesh-network of sensors. Messages can be forwarded to span several 100m distance
- Support of cable based busses for maintenance free and fast sensors. This reduce cabling costs to a minimum, everything is just plugged
- Installation of Internet access just by plugging into a router - no configuration
- For snapping on DIN rails, housing for flat electrical cabinets
- Version 3.5: support wireless sensors
- EAN number: 4 260376 260019
Starter-Kit: 4 260376 260200



Energy Controller Datasheet Multi-Datalogger

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Supported Sensors

Multisensor

- Secure SES303
EAN:5 015914 840098
- Philio 3-in-1 PAT02-A
Part number: 4713698571115
- Philio 3-in-1 PAT02-B
*Outdoor with special housing
Part number: 4713698571467
- Aeon 4-in-1 Gen5 EZW074
*No support of light sensor
*No support of motion dedector
Part number: 1220000012684

Temperature

- Secure SES302
Part number: 5015914840081
- Philio PST02-1C
Part number: 4713698570187 and
Part number: 4016139099378
- SCH.E.I.D.L V2A-Tempsensor
Part number: 4260376260026
- SCH.E.I.D.L Buffer-Tempsens
Part number: 4260376260071

Meter

- Aeotec HEM
1 phase 60A: 1 220000 014381
3 phase 100A: 1 220000 015616
3 phase 200A: 1 220000 015531
- devolo Home Control Wall Plug 2.0
Part number: 4250059699144
- Aeotec Nano Switch ZW116
Part number: 1220000015333

- SCH.E.I.D.L S0 Counter Adapter
Cabled 1-Wire
S0 pulse input DIN 43864
Weighted pulses for electricity, natural-
gas, water, heat or other meters
Update every 1 min
Indoor IP30
Part number: 4 260376 260040

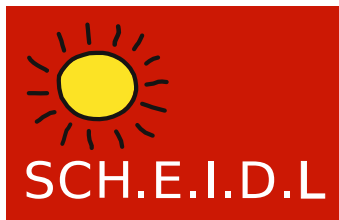
Repeater

- Philio PAN04-1B
Part number: 4 713698 571122

Wireless-Extension

- Z-wave.Me UZB1
Part number: 4260376260170 and
Part number: 4016139099354 and
Part number: 0019962006500
- Aeotec Z-Stick Gen5 AEOEZW090-C
Part number: 1220000012813

WARNING Only the sensors listed here are supported, other sensors will not work



Energy Controller Datasheet Multi-Datalogger

Web-Monitoring of Environmental, Thermal and Electrical Input

Technical Specification

Meter Inputs: 24* digital

El. power [W] el. energy [kWh]
wireless with clamps
cabled S0-pulse
Configurable weight and unit

Temperature-Sensor Inputs: 24* digital

wireless air or cabled sleeve [°C]

Multisensor Inputs: 12* digital

Humidity rel. [%rH] and abs. [g/m³]
Temperature [°C], Dew-point [°C], Flood
Alarm

State Sensor Inputs: 6* digital

cabled on/off

Hot-water-tank Sensor Inputs: 4* digital

cabled 3, 6 or 12 layers [°C]
Loading / discharge th. power [W]
Contained th. energy [kWh]

User Interface: Browser via network

Keyboard & mouse via PC, tablet, phone
Languages: English, German

Recording time: up to 20 Years

Average 1-day kept 5 years, 6-hours for
2 years, 1-hour for 1 year, 15-min for 3
month (Meter 1 year), 5-min for 1 month,
1-min for 2 weeks, 10s for 3 days

Wireless Sensor Protocol: Z-Wave Plus

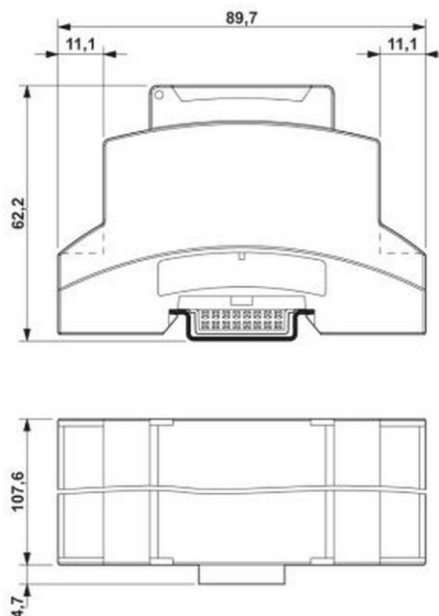
868MHz with +2,5dBm Tx power
Max 100m distance (outdoor)
Mesh-net up to 5 distances by repeater

Cabled Sensor Protocol: 1-Wire

4 independent bus master
Each max 50m distance
RJ45 plug according IPS standard
With +5V 100mA and +12V 200mA

Network: 10/100Mbps Ethernet plug

*) Starter-Kit is limited to overall 4 sensors



Security: due to Internet connection
SSL/TLS Encryption by 2048-Bit certificate
Web Application Firewall
Backup nightly of all logged data
Security updates nightly
Password quality check, no defaults

Power Supply: 12V DC max 630mA

Wall power supply
Standby <2W max 7,5W

Housing: 107 x 90 x 63mm 6TE Polycarbon.

Up to IP67 depending from cabinet
Protection class: I
for DIN-rail 35mm according DIN EN 60715

Operating Conditions: +10°C to +40°C

20%rH to 80%rH, non-condensing

Declaration of Conformity: CE standard for
"unabhängiges RS" according EN 60730
EMV according EN 55014-1 and EN 61000
ElektroG WEEE-Reg.-Nr. DE 31037580
RoHS and REACH

