

Digital Strom Energy Cockpit Installation Guide

Compatible with dSS version 1.19.7 or later

www.digitalstrom.com



Efficient and Effective Improvement of Energy Balance

Improve your energy balance by smartly using self-generated energy.

This is achieved by integrating your PV system or other energy source into the Digital Strom system. As soon as the generated energy is sufficient, charging stations for electric cars, boilers, or other energy consumers of your choice can be activated – without any manual intervention.

If no energy consumer is available, the generated energy can also be stored fully automatically if a battery is present. This reduces both, your dependence on the electricity provider and the feed-in to the power grid.

With this new tool you can, depending on your configuration and your presence in your home during the day, raise your self-consumption of the energy generated by your PV system from the classical 30% to up to 80%.

Functionality

Only when self-generated energy is available, specifically defined energy consumers are activated. The increased energy consumption is thus fed solely from your own "green" source.

Digital Strom Energy Cockpit detects how much "green" power is being output by the inverter. This allows additional energy consumers to be selectively activated and operated with the additionally available power. Examples include charging stations for electric cars, boilers, washing machines, or dishwashers.

The Digital Strom Energy Cockpit offers a flexible solution in case your energy source temporarily cannot supply power. For instance, if clouds interrupt power generation, a pre-defined shut-off delay will be activated. This prevents short-term switching on and off of your energy consumer.

The Digital Strom system measures the power in the home network and controls the energy consumers. This way, you can track your energy values in the Digital Strom Configurator and the app. Studies have shown that visualizing consumption leads to more conscious use and thus to a reduction in energy consumption by up to 15%.



Prerequisites before installation

You want to install Modbus on your existing Digital Strom system? Ensure before starting the installation of the following points.

- You need to have the dSS version 1.19.7 or later and
- one of these compatible Modbus (RTU) meters (max. of 6 meters per DS installation):
 - Hager ECR380D
 - Eastron SDM630-Modbus V2
 - ABB B23 212-600
 - Schneider Electric iEM3155
- Make sure to have the **IP address (URL) and password** of the Digital Strom Configurator.

Let's start!

1 - Connect the dSS (RS485 bus connection top right) to the RS485 connection of the Modbus RTU Meter.
 Please ensure the Modbus Meter is connected to the dSS 20/22 based on the schematic below:





2 - Connect to the Digital Strom Configurator and install the 'Modbus Smart Meter Protocol' app.



3 - Open the Modbus Smart Meter Protocol app and go to the 'Modbus hardware' tab. For data exchange via the RS485 interface, the next step is to check the communication parameters in the display of the Modbus RTU meter. The communication parameters for the baud rate, parity, data bits and stop bits must match the parameters in the 'Modbus hardware' tab.

Follow the User Manual of the Modbus Meter to learn how to set it up on the Modbus Meter.

digitalS	digitalSTROM Modbus Smart Meter Protocol									
Status	Modbus hardware	Attached meters								
Configu	ıre serial port									
Baud rate	19200			Ŧ						
Parity	even			•						
Data bits	9			*						
Stop bits	1			Ŧ						

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4 - Then go to the 'Attached meters' tab and fill in the following information:

	diatastron Modbus Smart Meter Protocol
	Modbus Smart Meter Protocol Sata Nedas Surdary Alached meters
k on 'Add meter'. First enter the	digitalSTROM
o Addrocc of the Medhus PTU Meter	Status Modbus hardware Attached meters Na attached meters
Address of the Modbus KTO Meter	Manage attached meters
t vou want to add.	
	Slave address - unique, 1.255 7.255
ow the User Manual of the Modbus	Attached meter Select
er how to set it up on the Modbus	New Enter
ter non to set it up on the modead	
ter.	Connected circuit type None
	Introduction meter
	Cancel Save
t select the type of the Modbus RTU	Slave address - unique, 1.255
	Attached meter Solort v
ter from the list and give it a name.	Select.
	Kastron - SUM/201-Modpus Hager - EK8000 Factor - SUM/201-Modpus V2
	Connected circuit type Schneider Electric - EM3155
	introduction meter
	Cancel Save
ect the circuit type of the Modbus	Stave address - unique, 1.255 1.255
eet the chedit type of the Modbus	Attached meter Select_
J Meter.	
	Name Enter
	Connected circuit type None
	Introduction meter
	PV Battery Carrol Save
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ter that measures the power from and	Attached meter Schneider Electric - iEM3155 🔹
he grid activate the switch	Name MODBUS Schneider I - iEM3155 📀
roduction meter".	Connected circuit type None *
	Introduction meter
	Cancel Save
ce you have filled in the fields, click on	Manage attached meters
e, and the Modbus RTU Meter will be	MODBUS Schneider I - iEM3155
played. Congratulations, you have	iEM3155 by Schneider Electric
	Properties
shed your configuration!	Claus Tailff Isteaduallan Armonisticium
	Slave Serial Tariff Introduction Connected circuit address Serial enabled meter type
	5 22451119 Yes Yes None

Now, you can monitor power and energy in the Energy graph app, similar to the dSM's. You can find the energy of the introduction meter as displayed in the chart of the whole installation.





5 - Setting up automation rules

After configuring the dSMs, Modbus RTU meters, or smart meters with P1 interface for measurements (Benelux), you can configure your desired states (app User Defined States in the configurator) based on the currently measured power. With these configured states, you can trigger automation rules in the Scene Responder app. In combination with Digital Strom terminal blocks, it is possible to switch on or off any devices based on the currently produced power. For devices compatible with Digital Strom, such as washing machines and dryers from V-Zug, Siemens, or Bosch (Home Connect), it is possible, for example, to trigger the start of a pre-configured program when self-generated power is available.

To activate the charging process at the wallbox, a potential separated release signal is required - this is realized with the SW-UMR200.

5.1 - User Defined States

Example 1:

Example 1:	User Defined State	25			digitalSTROM
	View State	Description if set Trigger to set State		Period Description If no set Trigger to reset State Period Current State	Delete State Smartphone
Start the User Defined States app.	Edit User Defined Sta	ite			×
produced power value of your meter.	This wizard will o	guide through the required ste	eps to se	etting up a new user defined state.	
By using the production value, the state	Please choose v	which events or values should b	be evalua	Jated.	
can be set and reset depending on the	Evaluate sensor n	neasurement to set a state	>	Create a state based on the netto produced power value of your modb	us
current power produced for the whole	Check whether an	ny window or door is open	>	meter.	
installation	Set state based o	n a consumption events	>	By using the production value, the state can be set and reset depending	00
installation.	Set state based o	n 'consumption power' measured b	oy a dSM	the current power produced for the whole installation.	
	Set state based o	n P1 consumption power			
	Set state based o	n total 'produced power' value	>	excess power" to be set when the measured production power is above	ate 3
	Set state based o	n P1 production power		5000W. To account for short periods of cloud cover, you can set a duratio	n l
	Set state based o	n Modbus consumption power	>	trigger state reset.	,
	Set state based o	n Modbus production power	>		
	Set state based o	n selected triggers	>	The UDS can then be used to trigger an action, such as turning on a spe electric consumer, like E-car charger or water beater.	SULLC
Give the state a name. Give the "if set"	Edit User Defined Sta	ate			×
(> 5000 Watt) and "if not set"					
	Name:	Production		Description if set: > 5000 Watt	
(< 2000 Watt) fields a description.				Description if not set: < 2000 Watt	
Next, select the meter on the left (EWZ)					-
and enter the power levels for "Set state"	Please select por	wer levels for setting and reset	tting stat	ate.	
(5000W) and "Reset state" (2000W) on	EWZ			Set state if production is higher than: 5000 🗘 🔪	N
the week t	Batterie				
the right.	Charger			Reset state if production is lower than: 2000 🟹 \	N
To account for short periods of cloud	Charger				
cover, you can set a duration and					
minimum threshold which the produced					
minimum unestion which the produced					
power needs to be below to trigger					
state reset.	Set state after	a period of:	5	0 mm:ss if no other event was received meanwhile	
	Reset state after	er a period of:	15	$\left \begin{array}{c} & \\ \hline & \\ \end{array} \right = 0$ mm:ss if no other event was received meanwhile	
					Cancel

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User Defined States							digi	italSTROM
🔘 New State 🛛 Edit State 🕟 Toggle State								🗊 Delete State
Name 🔶	Description if set	Trigger to set State	Period	Description if no set	Trigger to reset State	Period	Current State	Smartphone
B Hanually set state								
Hot water treatment	- Activ	set manually by another app		条 Inactiv	set manually by another app		条 Inactiv	V
modbus-consumption-states								
Consumption		Charger current consumption > 8000 W	00:00	条 < 8000 Watt	Charger current consumption < 3000 W	05:00	条 < 8000 Watt	
modbus-production-states								
Production	₩ > 5000 Watt	EWZ current production > 5000 W	05:00	秦 < 2000 Watt	EWZ current production < 2000 W	15:00	鮝 < 2000 Watt	

User Defined States

Example 2:

Start the User Defined States app. Create a state based on the netto produced power value of your meter. By using the production value, the state can be set and reset depending on the current power produced for the whole installation.

Give the state a name. Give the
"if set" (Yes) and "if not set" (No)
fields a description.
Next, select the meter on the left
(PV-Batterij) and enter the power
levels for "Set state" (2000W) and
"Reset state" (1500W) on the right.
To account for short periods of cloud
cover, you can set a duration and
minimum threshold which the
produced power needs to be below
to trigger state reset.

User Defined	State								
This wizard v	will guide through the required steps	s to sett	ng up a new user o	lefine	d state.				
Evaluate sens	sor measurement to set a state	>							
Check wheth	er any window or door is open	>	Create a state bas meter.	ed on	the netto produ	Iced pow	er value	of your m	odbus
Set state bas	ed on a consumption events	>							
Set state bas	ed on 'consumption power' measured t	oy a dSM	By using the produ the current power	iction produ	value, the state of ced for the whole	can be sel e installatio	and rese on.	et dependir	ng on
Set state bas	ed on P1 consumption power								
Set state bas	ed on total 'produced power' value		"excess power" to	ur hon be se	ne has a photovo it when the meas	ured prod	em, you c uction po	wer is abo	a state ve
Set state bas	ed on P1 production power		5000W. To account and minimum three	t for s shold	short periods of cl which the produc	loud cove	r, you car needs to	n set a dura be below	ation to
Set state bas	ed on Modbus consumption power	>	trigger state reset.						
Set state bas	ed on Modbus production power	>	The UDS can then	be us	sed to trigger an	action, su	ch as tur	ning on a s	pecific
Set state bas	ed on selected triggers	>	electric consumer,	like E	-car charger or w	vater heat	er.	-	
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Please select User Definer	power levels for setting and resettin	ng state.						Next	Canc
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Please select User Definer Name: Please select PV-Batterij Huisaansluiti Autolader 2 Autolader 1	power levels for setting and resettin d State PV production > 2000 Watt : power levels for setting and resettin ng	ng state.	Descri Descri	ption ption ate if j	if set: if not set: production is high	ner than:	Yes	Next	Cance ↓ W ↓ W
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5.2 - Event Responder

Example 1:

The User Defined State can now be used to trigger an action, such as switching on or off a specific electric consumer, like E-car charger or a boiler. It is also possible to insert conditions, e.g. if the E-car charger may only be switched on when the hot water has already been heated up. Prioritization of consumers.



In the activities tab, select the activity that is to be executed. In this example, the SW-KL200 terminal (Car Charger) is to be switched on.

In the conditions tab, select the condition or conditions that must be fulfilled. In this example, the condition User Defined State -> Hot water treatment -> Inactiv is selected. This means that if there is production (>5000 Watt), the car charger is only switched on if the hot water treatment has already complete (boiler).



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Example 2:

Start the Event Responder app. Create an automation rule (New Responder) to switch consumers on or off.

Give the new responder a name. Next, first select the trigger (User Defined States -> PV excess Production -> Yes) that should start the activity or activities.

In the activities tab, select the activity that is to be executed. In this example, the SW-UMR200 terminal (EV lader buiten) is to be switched on.

In the conditions tab, select the condition or conditions that must be fulfilled. In this example, the condition User Defined State -> Boiler Hot -> Yes is selected. This means that if there is production (>2000 Watt), the car charger (EV lader buiten) is only switched on if the hot water treatment has already complete (boiler).

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🔕 New Responder 🔯 Edit Responder	🕐 Disa	ble Responder 🜘 Test Responder				Û
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dit Responder						
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Trigger Initiated	Activ	ities Conditions				
Choose the triggering	activi	v for the message. You can	choose more than	one activi	ty as trigger	
choose the diggening	ucum	y for the messager fou can	choose more diam	one acam	cy us enggen	
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Device Actions	>	Glazenwasser	>	偨 No		
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Room State	>	Neato aan/uit	>			
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6 - DS Energy Cockpit - dS Smart Home App





To access the new features on your smartphone, ensure you've downloaded the latest Digital Strom app update, available on the Google Play and the App Store.

www.digitalstrom.com