

SMART**CONTROL** | ECS OPC Server

3-349-572-03 2/3.10



1 SmartControl OPC Server

SmartControl OPC Server software is optionally available for the SmartControl.

Data from SmartControls can be made available to OPC clients via the OPC standard with the help of the OPC server.

An interface is thus provided by means of which data from SmartControls can be transferred to numerous software applications.

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2 Scope of Delivery

The following is included in the scope of delivery:

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1 copy of SmartControl OPC Server software and
1 user's manual
on CD.
```

3 Installation

Run the *SmartControlManagerOPC_xxx.exe* file contained on the included CD. The OPC Server is then installed.

The OPC Server is configured with the help of the user interface in the SmartControl Manager.

The program itself runs as an application, i.e. once the OPC Server has been configured and started the SmartControl Manager can be exited.

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OPC Functions in the SmartControl Manager

The toolbar at the top of the window includes icons for the various OPC functions:

The individual icons execute the following functions:



New network: Creates a new OPC network. The user is prompted to enter the name of the network.



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Add a network from the workspace: The structure of the workspace is used for the new network.

Import OPC Server structure: A previously exported (saved) server structure is imported. The server structure file can be found in the directory path for the SmartControl Manger program.

- Export OPC Server structure: The current server structure is saved in XML format.
- Scan network: The network is scanned for SmartControls by clicking the "Find" button. Found SmartControls can be marked and transferred to the network in the OPC window by clicking the "Accept" button.



OPC Server status: The status of currently running OPC Servers is displayed.



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Start / exit OPC server

Update configuration: The OPC Server is updated with the changes included in the OPC window.

In order to configure an OPC Server for full read-out capability, a network is first required. A network can be newly created, after which SmartControls can be added. In the example shown below, the network from the workspace was utilized by simply

clicking the 😼 button.



A context menu appears after clicking the SmartControl icon with the right-hand mouse key.



A connection to the SmartControl can now be established.

Name:	GW2			Se	Firmware: FW 2.3.	07c 32110068;	7		ead programs twork variable Relays	,
Program					Channel t	уре				_
										~
No. 1	. Name	I	Ad	Unit	Туре	Sta	Program	Value	Readout	1
1	perature senso	то	0	°C	Temperature sensor	Active	No			
2	iperature senso	T1	1	°C	Temperature sensor	Active	No			
3	perature senso	T2	2	°C	Temperature sensor	Active	No			
4	perature senso	T3	3	°C	Temperature sensor	Active	No			
5	iperature senso	T4	4	°C	Temperature sensor	Active	No			
6 🗌	iperature senso	T5	5	°C	Temperature sensor	Active	No			
7	iperature senso	T6	6	°C	Temperature sensor	Active	No			
8 🗆	iperature senso	T7	7	°C	Temperature sensor	Active	No			
9 🗌	A/D converter_C	A0	0	V	A/D converter	Active	No			
10	A/D converter_1	A1	1	V	A/D converter	Active	No			Î
11	A/D converter_2	A2	2	V	A/D converter	Active	No			
12	A/D converter_3	A3	3	V	A/D converter	Active	No			
13	A/D converter_4	A4	4	V	A/D converter	Active	No			
14	A/D converter_5	A5	5	V	A/D converter	Active	No			
15	A/D converter_6	A6	6	V	A/D converter	Active	No			
	A/D converter_7	A7	7	V	A/D converter	Active	No			
16			0	kWh	Meter	Active	No			
16 17	Meter_0			1.0.04						

After clicking "Add new data points", the SmartControl's standard inputs are displayed. The desired inputs can then be selected.

Current values must be read in before clicking the "Accept" button.

The corresponding SmartControl channels are displayed after clicking the "Programs" or "Network Variables" button, which can then be selected and accepted.

👻 😼 🎬 🐝 😂 😫 😂								
🖃 況 Networks: "Proj 1"								
🗄 🕎 GW2								
🗄 📠 Standard item : 1								
Temperature sensor_0								
🕅 Network 🔊 Data 🛃 OPC-Server								

Image: Second standard item : 1 Image: Standard item : 1 Image: Standard item : 1 Image: Standard item : 1	Attributes	After right clicking any given channel, the sampling rates for the server and the channel can be adjusted.
	Channel Name: Temperature sensor_0 ID: T0 Address: 0	The OPC Server is now fully configured and can be started by clicking the started by clicking the
	Unit: *C Type: Temperature sensor Program: No Value: 26.8 Accept	The newly created server structure can be saved by clicking the button. The server structure is
Network 🞒 Data 🔒 OPC-Server	OPC Server properties Server scan rate: 100 [ms] Item sampling rate: 10000 [ms] Accept End	saved to the directory path as a XML file.

After clicking the solution, a window appears in which OPC Server status is displayed (the structure must first be saved).

OPC-Server Status		×
		_
Name:	OpcSCServer	-
Start time:	20. April 2010 12:26:58	1
Up to date time:	20. April 2010 12:26:58	-
Date last update:	1. Jan 02:00:00	-
State server:	Server active.	-
Number of groups:	Bandwidth: -1 Compilation: 8	-
Major version:	1 Minor version: 0	
Manufacturer info:	GMC-I Gossen Metrawatt GmbH OPC DA 3.0 Server	
Test	Reload End	

Access Authority Levels

Access authority levels include:

- 1 Standard channels read
- 2 Program channels read
- 3 Network variable channels read/write
- 4 Relay channels read/write



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