SIEMENS 5⁶⁴⁷

From CD V3.0

Plant Operating Software

ACS741

Operating, service and alarm software

PC software for the remote operation, monitoring and commissioning of heating, ventilation and district heating plant and remote readout of consumption data.

Windows version.

Use

- Remote management with the OCI600 and OCI611 central communication units:
 - Remote operation and monitoring of heating plant whose devices (controllers, pulse adapters, temperature sensors/adapters, digital input modules and relay modules) are connected via LPB (Local Process Bus)
- Remote management with the M-bus central units OZW10 and OZW111:
 - Remote operation and monitoring of M-bus-compatible devices (controllers and meters) in community and district heat substations
 - Acquisition of consumption data of M-bus-compatible meters for consumption cost billing
 - Acquisition of consumption data from radio-based consumption meters of the Siemeca™ AMR system, transmitted to the M-bus central unit OZW10 via the Mbus interface of the WTT16 network node
- Diagnosis and commissioning of LPB controllers with OCI69 and OCI700 service interfaces
- Diagnosis and commissioning of KNX controllers with OCI700 service interface
- Reception of alarms in plants with OZW30 und OCI55

Operating software

The operating software provides a number of applications, depending on the selected software package.

Application	Description
Plant Diagram	Visualization and remote operation of data points with graphic
user-defined	display of plant. Graph, data points and interconnections are de-
	fined by the user
Popcard	Visualization and remote operation of all transmitted data points of
	the connected devices
Standard	Predefined pages and data points of each device
 User-defined 	Pages and data points as defined by the user
File Transfer	Transmission and storage of files of the central units and memory
	cards
Parameter	Reading and editing the setting parameters of a device in tabular
Settings	form
Plant Navigation	Plant view in the form of a tree structure. The view corresponds to
	the addressing of the devices
Connections	Type of connections
 <u>Direct</u>Direct 	With standard null modem cable or standard USB cable
	(connector type A to B)
• Modem	Via telephone modems

Alarm software

The alarm software is an overriding program included in all software packages.

Application	Description
Alarm	Alarms from the central unit or the plant are received, stored, displayed and output on a printer
System Report	Information from the central unit or the plant is received, stored, displayed and output on a printer
Connections	Type of connection
Direct	With standard null modem cable
• Modem	Via telephone modems

Service software

The service software has a fixed functionality and is included in all software packages.

Application	Description
Popcard	Visualization and remote operation of all transmitted data points
	of the connected devices
Standard	Predefined pages and data points of each device
 User-defined 	Pages and data points as defined by the user
Online Trend	Acquisition and presentation of the dynamic behavior of selected
	data points of the plant with connection to the plant
Parameter	Reading and editing the setting parameters of a device in tabular
Settings	form
Commissioning	Logging the setting parameters of individual devices, device
Report	groups or of the entire plant
Plant Navigation	Plant view in the form of a tree structure. The makeup of the tree
	structure corresponds to the addressing of the devices
Connection	Directly with standard null modem cable or standard USB-Kabel
	(connector type A to B)

Functions with central units

The functions are dependent on the type of central unit or the type of service interface.

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Function	009120	0CI611	01MZO	OZW111	0ЕМZО	OC155	69IDO	OC/100
Plant Diagram	•	•	•	•			•	•
Popcard	•	•	•	•			•	•
Online Trend	•	•	•	•			•	•
File Transfer	•		•					
Parameter Settings	•	•	•	•			•	•
Commissioning Report	•	•	•	•			•	•
Plant Navigation	•	•	•	•			•	•
Alarm	•	•	•	•	•	•		
System Report	•	•	•	•	•	•		
Connections								
• Direct	● 1)	● 1)	• 1)	● 1)	• 1)	• 1)	● 1)	2)
• Modem	•	•	•	•	•	•		

¹⁾ With standard null modem cable

Equipment combinations

Number of plants

With all programs, the number of plants are unlimited.

Number of devices per plant

With the operating software, the number of devices per plant are limited. By contrast, with the alarm software and the service software, the number of devices are unlimited. To limit the number of devices, a credit is available with ACS741. Every device connected to the plant charges that credit with a device-specific value. The number of devices that can be operated are limited by the credit amount.

- The credit with ACS741 is 21,30000
- The device-specific credits are as follows:

Type of product	Device-specific credit
OCI600, OCI611, OZW10, OZW111	10
OCI69, OCI700, WTT16	0
Synco™ RMU7, RMH7, RLU2, RXB*	8
Synco™ QAW740	1
SIGMAGYR® RVL, RVP, RVD	8
SONOHEAT®, SONOGYR®	3
MEGATRON2 [®] , VOLUTRON2 [®]	2
MEMOTRON®, AEW21.2, PadpulsM1	1
Third-party device with own Device Description	8
Unknown device without own Device Description	8

^{*} only RXB... with KNX logo

PC hardware

PC component	Minimum requirement	
Processor	Pentium 100 MHz, recommended 233 MHz	
RAM	32 MB, recommended 128 MB	
Hard disk	300 MB available memory	
	Recommended: additional 20 MB per plant	
Screen	VGA standard driver 800 x 600, 256 colors	
	Recommended: SVGA standard driver 1028 x 768	

²⁾ With standard USB cable (connector type A to B)

Ports	USB 1.1 and higher or serial COM up to 9,600 9.600 Baud
	(directly or via modem)
	Parallel port for copy protection
Operating system	Windows 98, second edition
	Windows ME
	 Windows NT 4.0, service pack 6
	Windows 2000
	Windows XP
Diskette drive	3½", 1.44 MB, for diskette with log file
CD-ROM drive	Single

Modems

Modems are required if communication takes place via the telephone network. The drivers of the modems installed under Windows can be used.

Type summary

ACS741 i is supplied as a complete set. Copy protection (dongle) and log file (license) are included.

Type reference	Dongle CMD.01
ACS741	Included

Ordering and delivery

Standard package

Ordering

When ordering, please give type reference ACS741.

Delivery

The standard package is supplied as a set in a box, consisting of:

- CD-ROM with
 - operating software
 - service software
 - alarm software
 - batchjob software (extra license requested)
 - documentation
- LCopy Copy protection CMD.01
- Diskette with key for copy protection
- Installation nstallation instructions

Documentation

Software

Type reference	Document and reference number
ACS7	Basic Documentation CE1P5640en
	User Manual CE1U5640en
	Installation Instructions CE1G5640xx
ACS700	Data Sheet CE1N5641en
ACS712	Data Sheet CE1N5643en
ACS713	Data Sheet CE1N5644en
ACS715	Data Sheet CE1N5645en
ACS741	Data Sheet CE1N5647en
ACS785	Data Sheet CE1N5648en

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Type of system	Document and reference number
Synco™ 700 / Synco™ 200	Product Range Description
	CE1S3110en
Konnex bus	Basic Documentation CE1P3127en
ACS600 and OCI600, operating software and	Basic Documentation CE1P2529en
central communication unit	
Local Process Bus (LPB), System Engineering	Basic Documentation CE1P2370E
Local Process Bus (LPB), Basic Engineering	Data Sheet CE1N2032E
Data	
Local Process Bus (LPB), Basic System Data	Data Sheet CE1N2030E
M-bus system	Basic Documentation CE1P5361en
M-bus system, Basic System Data	Data Sheet CE1N5361E
Siemeca™ AMR system	Data Sheet CE1N2870en

Central units

Type of central unit	Document and reference number
Central communication unit OCI600	Data Sheet CE1N2529E
	User Manual CE1U2529E
Central communication unit OCI611	Data Sheet CE1N2533en
	Installation Instructions CE1G2533xx
M-bus central unit OZW10	Data Sheet CE1N5362E
	User Manual CE1U5362E
M-bus central unit OZW111	Data Sheet CE1N5363en
	Installation Instructions CE1G5363xx
Service interface OCI700	Data Sheet CE1N5655de

Technical design

Operating and service software

General

The operating software and the service software include applications with the following features:

- The following applications can be started several times and operated in parallel:
 - Plant Diagram
 - Popcard
 - Online Trend

Offline Trend

- File Transfer
- Parameter Settings
- Commissioning Report
- Several applications can be used simultaneously (e.g. Plant Diagram and Popcard)
- Active applications (e.g. Online Trend) can operate in the background
- User-defined adjustments can be made in the following applications and views:
 - Plant Diagram
 - Popcard

Plant View

The software contains a device description of each supported device. The device descriptions define

- the data points with the associated features
- the links to the applications

Plant Diagram

This application permits the graphic presentation of plant (individual devices or groups of devices) with the following choices:

- · Automatic updating of process values in the diagram
- Changing setpoints in the diagram
- In the case of user defined diagrams, I Links to other diagrams can be established inks to other diagrams can be established

A library of standard plant diagrams is assigned to each type of device.

For all supported plant diagrams, the library contains:

- The graphic presentation
- The data points to be displayed
- The text to be displayed

The application identifies the selected plant type, automatically assigns the standard plant diagram and shows the current values.

A user-defined plant diagram can be defined for each device:

- By adopting and adjusting the standard plant diagram
- By creating a new plant diagram

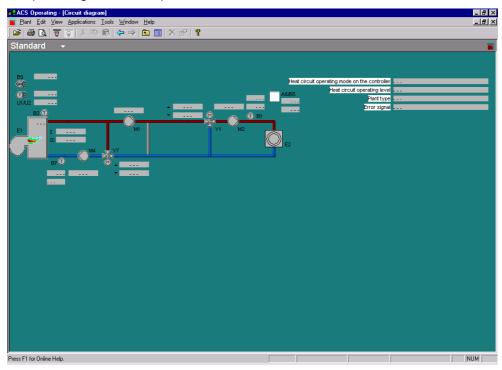
A user-defined plant diagram is created as follows:

- Use external graphic software (e.g. Micrografx Picture Publisher™) for the graphic presentation. The graphs can be adopted in bitmap format
- For the inclusion of data points and links, the application has an Editor integrated

All <u>user-defined plant plant</u> diagrams will be stored in a separate library. They can also be created without having a connection to the plant (offline).

Switching between the standard and the user-defined plant diagram is possible at any time.

The plant diagrams can be printed out.



Popcard

This application is used to visualize all transmitted data points of each device and their values.

Each type of device uses standard popcards. Makeup and contents of the operating pages are predefined

User-defined popcards can be created for each device and each node. Data points of all subordinate devices can be added to popcards that are assigned to a node. Standard and user-defined popcards can be copied to devices of the same type or to superposed nodes.

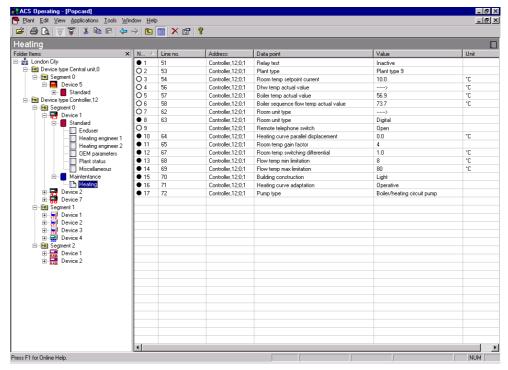
The user-defined popcards offer the following features:

- They can consist of several user-defined pages
- Each page can be subdivided into several user-defined sections
- Freely selectable data points and separators can be assigned to the popcards, the pages and the sections

Switching between the standard and the user-defined popcards is possible at any time.

Each selected page is automatically updated. The updating process will be visualized.

The operating pages can be printed out and exported as an ASCII file.



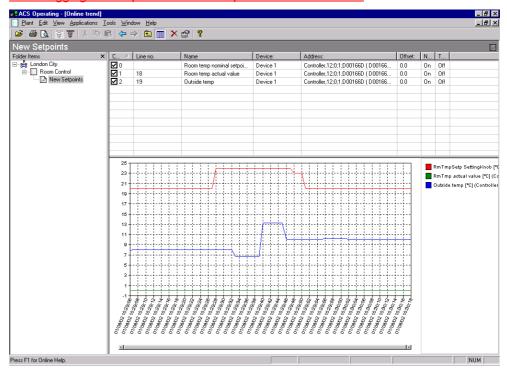
Online Trend

This application allows any data points of a plant to be logged. The connection between plant and PC is established. All acquired data are stored directly on the PC. The graphic presentation of trend logging takes place online.

The description, the selected data points of all devices of the plant and the sample interval are defined in the trend definition. With the online trend, it is also possible to select storage of the commissioning report at the start and end of logging.

In trend logging, the cyclically queried data are stored and graphically presented. Earlier trend logging can be graphically shown again at any time.

Trend logging can be printed out and exported as an ASCII file.



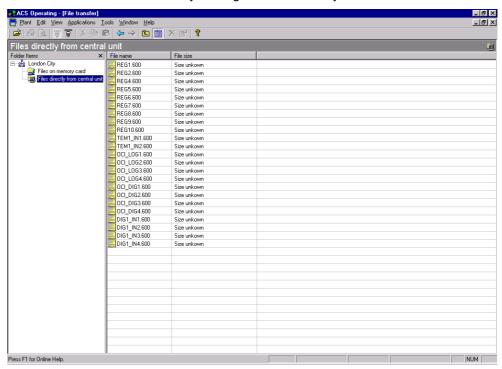
File Transfer

This application makes possible the exchange of files between the central unit and a PC. It enables

- files to be copied from the central unit or its memory card to the PC
- files to be copied from the PC to the central unit's memory card
- the memory card to be formatted

For visualizing the data, a selectable Editor that is suited for ASCII files can be started.

File transfer can be automated by making use of the batchjob software.



Parameter Settings

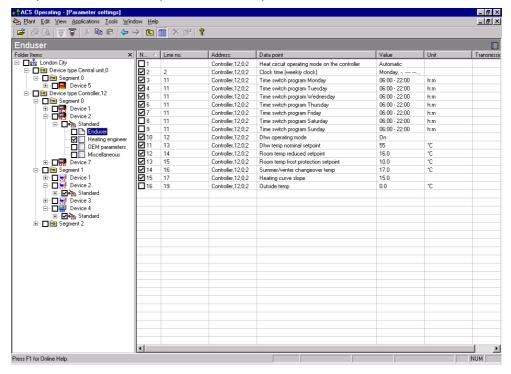
This application is used to download, upload or compare the settings of the connected devices.

The settings can be

- · stored as a parameter set
- · compared with a stored parameter set
- · compared with the standard parameter set
- · overwritten with a stored parameter set
- · overwritten with the standard parameter set

The parameter sets can be edited either online or offline. The individual data points of a parameter set can be selected. The transmission result of uploading, downloading or comparing is displayed online.

The parameter set can be printed out and exported as an ASCII file.

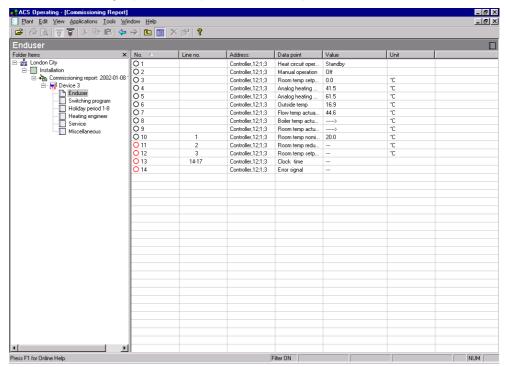


Commissioning Report

This application is used to log the setting values of individual devices, groups of selected devices or of entire plants.

The data points of the selected devices are stored with data point designation, value, unit and status.

The commissioning report can be printed out and exported as an ASCII file.



Alarm software

General

The alarm software consists of the following applications for the reception and further handling of alarms and of the plant's operating status:

- Alarm
- · System Report

Alarm

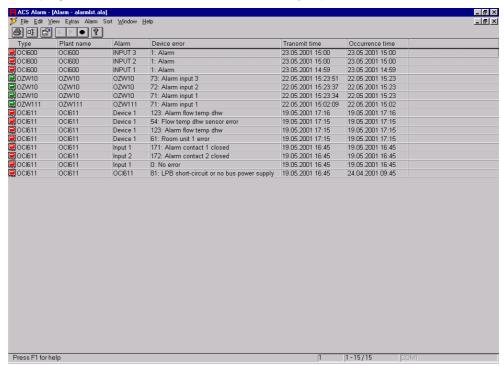
Every alarm received from the plant is entered in an alarm list.

The alarm reception sequence can be configured:

- Acoustic signal
- A popup window opens. The alarm is entered in the alarm list only when the window is closed
- Printout on a printer
- Any combination of the 3 choices

The user can select the columns of the alarm list. The column designations and the arrangement of the individual columns can be configured on a user-specific basis.

The entire alarm list can be exported as an ASCII file. Also, to facilitate further handling in other programs, the alarms received are automatically exported to an ASCII file.

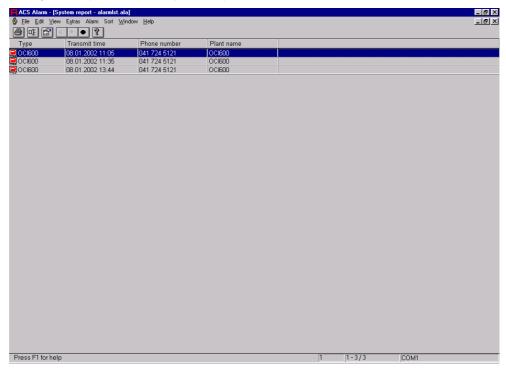


System Report

The system report is used to monitor plant operation.

It contains general information about the plant, such as type of central unit, phone number of the plant and plant name. Also, a system report of the OCI600 central unit can transmit alarms, meter readings or the number of operating hours.

The system report can be output on a printer.



General functions

Plant Navigation

For plant navigation, the plant is presented in the form of a tree structure. The following applications support this mode of presentation:

- Plant Diagram
- Popcard
- · Online Trend
- Offline Trend
- · Parameter Settings
- · Commissioning Report
- Planning and Evaluation of Task
- Logging of Task

The following views can be selected:

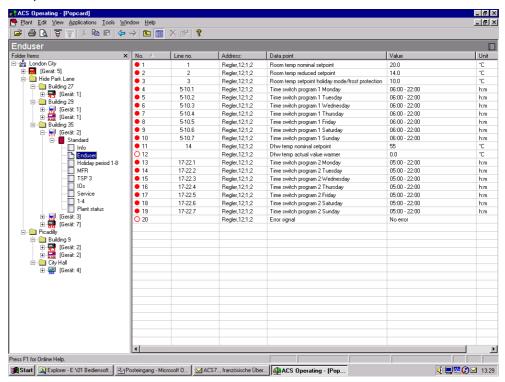
- Device view
- Plant view

The device view shows the plant in accordance with device addressing.

In the plant view, the tree structure can be defined on a user-specific basis. The tree structure is defined by including nodes. The devices can be assigned to the nodes in any manner desired.

Switching between device view and plant view is possible at any time. A description can be added to each device and each node.

The plant view in the form of a tree structure can either be shown or hidden.

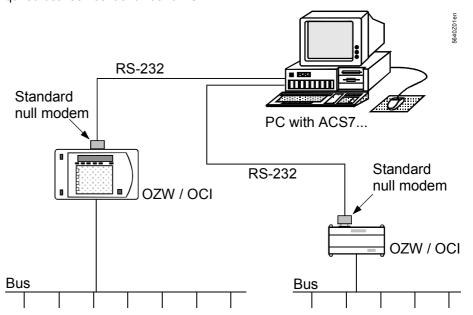


Connections

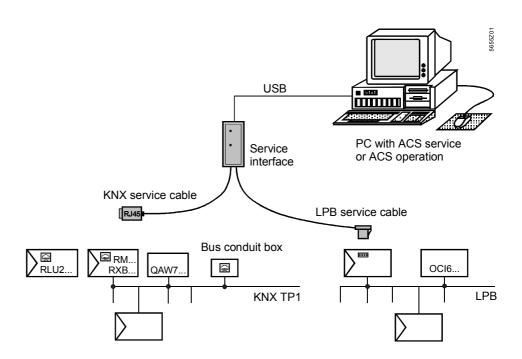
Communication with the central units can take place either directly or via modem.

Direct connection for plant supervision

In the case of a direct connection, a standard null modem or standard USB cable is required between central unit and PC.

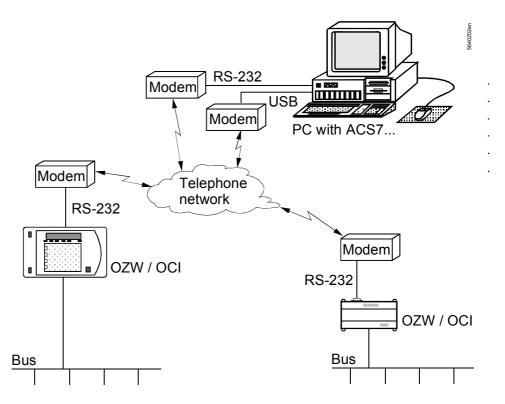


Direct connection for service



Telephone connection

In the case of a connection via the telephone network, a Hayes-compatible modem is required on each side.



For more detailed information about RS-232 cables, standard null modems and modems, refer to the various pieces of Basic Documentation.

Commissioning notes

The software must be installed according to the Installation Instructions supplied with the CD.

General note

The programs offer the standard Windows Help functions, so a description of the commands and menus is available at any time.