

Batchjob Software

ACS910

for use with OZW10 / OZW111 central units

Software for the automatic control and logging of plant data of one or several community heating or district heating plants with OZW10 / OZW111. MS Windows version.

Use

The ACS910 batchjob software is an overriding program designed for the

- cyclic transmission of billing files with consumption data of meters to a PC
- time-dependent control of parameters (setpoints, etc.), e.g. for load management
- time-controlled logging of selected process and consumption data

Functions

For the automatic control and logging of plant data, the following applications are used:

<i>Application</i>	<i>Description</i>
Scheduler	The Job Types created are executed based on a time schedule and are monitored
Job Type Editor	Definition of write and read options that are executed by the Scheduler
Log File	The processes taking place in the Scheduler are logged

Ordering and delivery

The ACS910 batchjob software and CMD.01 copy protection are included in the scope of delivery of the ACS11... operating software.

The batchjob software can only be used in connection with the associated key (log file).

Ordering

To be ordered is the log file with the key for the copy protection:

- Type reference **ACS910**
- **Serial number** of the copy protection (SNR. xxxxxx)

Delivery

The delivery comprises

- The log file with the key for the copy protection

Equipment combinations

M-bus system

For information about the M-bus system, refer to the following pieces of documentation:

- Data sheet CE1N5361E, "Basic System Data"
- Basic documentation CE1P5361en, "M-Bus System"

Software combinations

In principle, the following programs can be combined:

- ACS 910 batchjob software with ACS110 operating software and ACS900 alarm software
- ACS 910 batchjob software with ACS111 operating software and ACS900 alarm software

The programs can be run simultaneously.

Central units

The ACS910 batchjob software can be used in plants with the following types of central units:

- M-bus central OZW10 (data sheet CE1N5362E)
- M-bus central OZW111 (data sheet CE1N5363en)

PC hardware

<i>PC component</i>	<i>Minimum requirement</i>
Processor	486 / 66 MHz for Windows 95 / 98 or Pentium for Windows NT 4.0
RAM	24 MB for Windows 95 / 98 or 32 MB for Windows NT 4.0
Hard disk	10 MB free storage space Recommendation: plus 20 MB per plant
Screen	VGA standard driver 640 x 480
Port	Serial COM1...COM4, up to 9,600 Baud for communication (directly or via modem) Parallel port for copy protection
Operating System	Windows 95, Windows 98, Windows NT 4.0
Diskette drive	3½", 1.44 MB
CD-ROM drive	1 speed

PC software

For the further handling of exported data, a user program is required (e.g. MS Excel), suited for ASCII files

- that consist of several lines and columns, and
- whose columns are separated by tab

Modem

Modems are required if communication takes place via the telephone network. The following modem drivers are delivered as standard:

- Elsa MicroLink 28.8k, 36.6k and 56k
- US Robotics Sportster VI
- ZyXel Elite U-1496E

Other modem settings can be made.

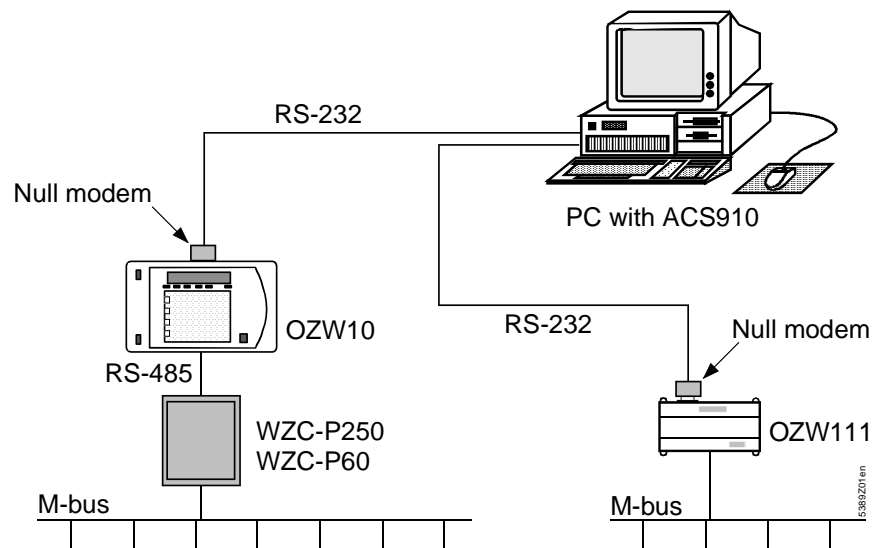
Technical features

Communication

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

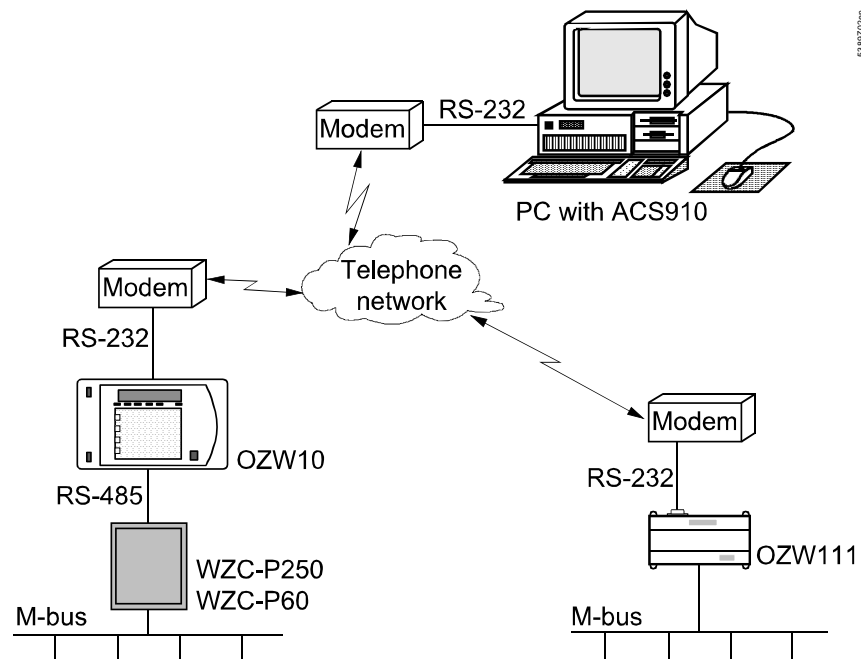
Direct connection

The direct connection necessitates a null modem between central unit and PC.



Telephone connection

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



For more detailed information about the RS-232 cables, null modes, modems, M-bus and RS-485, refer to the Basic documentation CE1P5361en.

General information about the batchjob software

For each supported device, the ACS910 batchjob software has a device description which the software program can access. In the device descriptions,

- the datapoints with the associated characteristics are defined
- the links to the applications are established

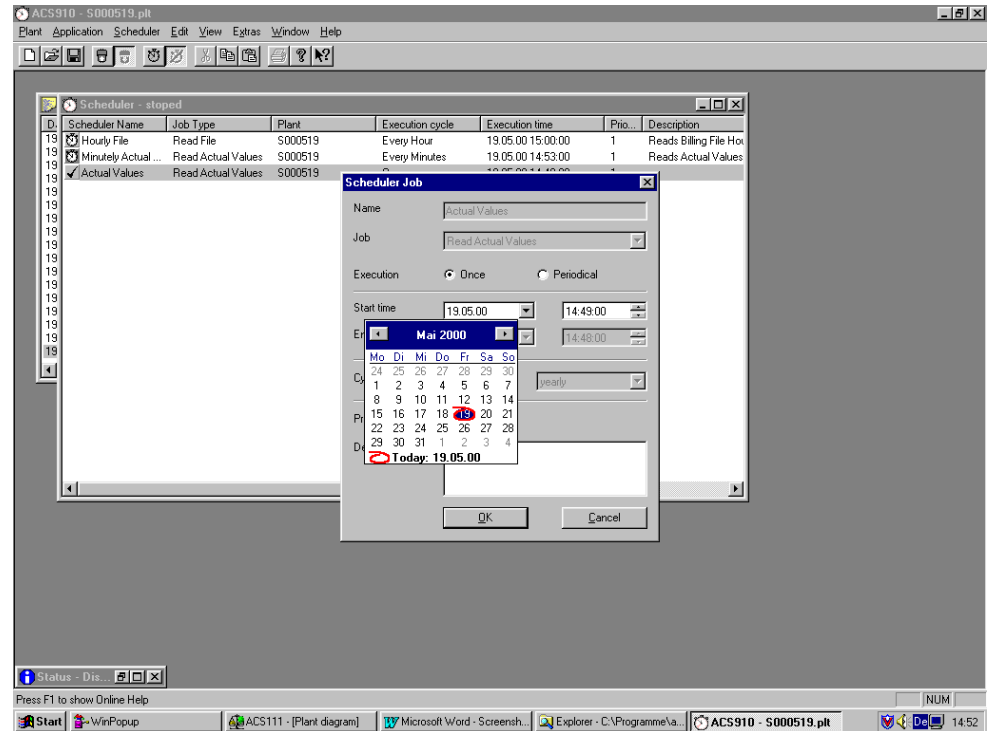
Applications

Scheduler

This application defines the jobs. A job determines at what points in time (once, periodically) a job will be executed. One particular Job Type can be used by several jobs. One job is restricted to one Job Type.

When the Scheduler is started, the jobs will be executed according to their definition. Alternatively, a job can also be executed manually.

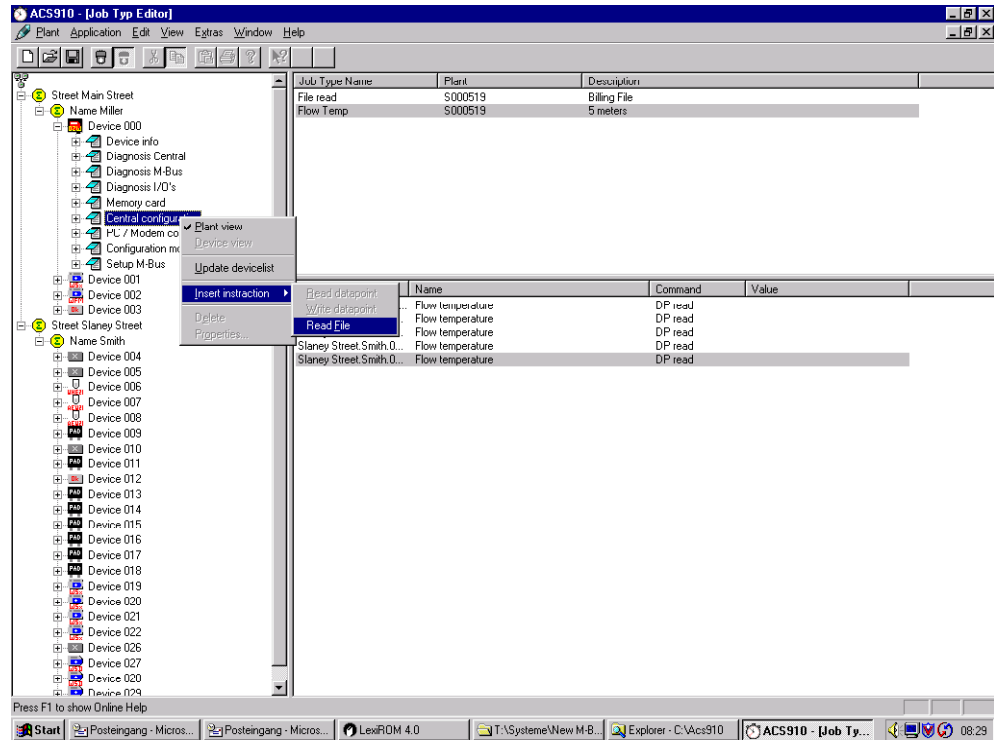
All data and files read are stored on the PC. The data can be further handled with the help of MS Excel Macros, for instance.



Job Type Editor

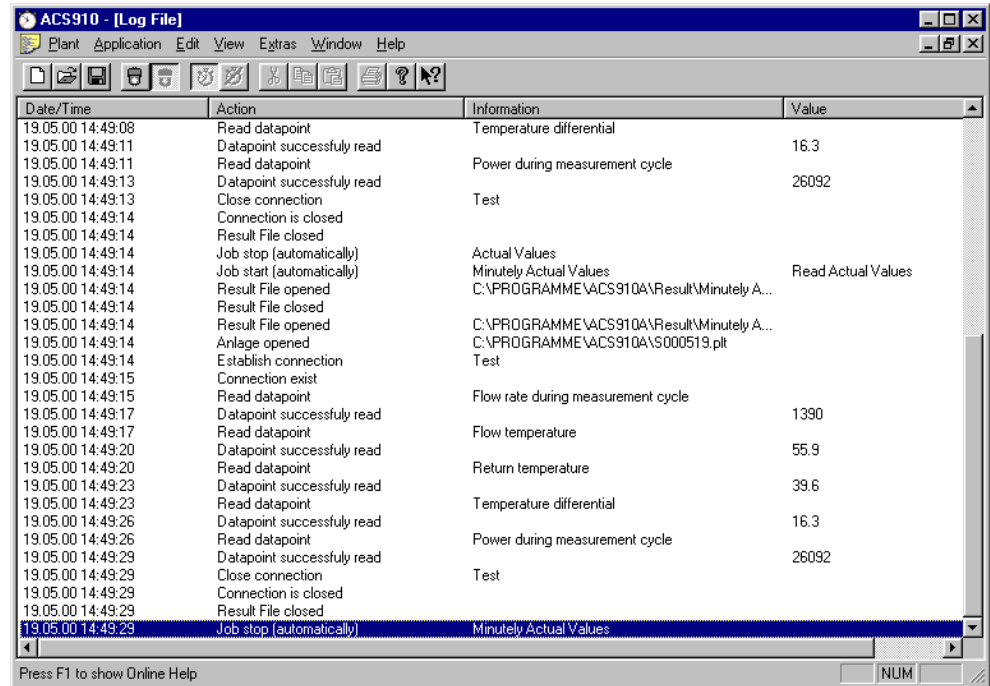
This application facilitates the generation of write and read operations executed by the Scheduler. It is possible to have different Job Types in different plants, but one particular Job Type is always restricted to only one plant.

With a Job Type, any number of datapoints of any devices in a plant can be read or written. Using the "Read File" command (see illustration below), it is also possible to add the reading of entire files to the Job Types.



Log File

The application logs the processes that take place in the Scheduler. This applies to the jobs executed automatically and manually.



The screenshot shows a Windows-style application window titled "ACS910 - [Log File]". The window has a menu bar with "Plant", "Application", "Edit", "View", "Extras", "Window", and "Help". Below the menu bar is a toolbar with various icons. The main area contains a table with four columns: "Date/Time", "Action", "Information", and "Value". The table lists a series of log entries from 19.05.00 14:49:08 to 19.05.00 14:49:29. The entries include actions like "Read datapoint", "Datapoint successfully read", "Close connection", "Connection is closed", "Result File closed", "Job stop (automatically)", "Job start (automatically)", "Result File opened", "Result File closed", "Anlage opened", "Establish connection", "Connection exist", "Flow rate during measurement cycle", "Flow temperature", "Return temperature", "Temperature differential", "Power during measurement cycle", and "Minutely Actual Values". The "Value" column contains numerical values like 16.3, 26092, 1390, 55.9, 39.6, and 26092, or text like "Read Actual Values" and "Minutely Actual Values".

Date/Time	Action	Information	Value
19.05.00 14:49:08	Read datapoint	Temperature differential	
19.05.00 14:49:11	Datapoint successfully read		16.3
19.05.00 14:49:11	Read datapoint	Power during measurement cycle	
19.05.00 14:49:13	Datapoint successfully read		26092
19.05.00 14:49:13	Close connection	Test	
19.05.00 14:49:14	Connection is closed		
19.05.00 14:49:14	Result File closed		
19.05.00 14:49:14	Job stop (automatically)	Actual Values	
19.05.00 14:49:14	Job start (automatically)	Minutely Actual Values	Read Actual Values
19.05.00 14:49:14	Result File opened	C:\PROGRAMME\ACS910A\Result\Minutely A...	
19.05.00 14:49:14	Result File closed		
19.05.00 14:49:14	Result File opened	C:\PROGRAMME\ACS910A\Result\Minutely A...	
19.05.00 14:49:14	Anlage opened	C:\PROGRAMME\ACS910A\S000519.plt	
19.05.00 14:49:14	Establish connection	Test	
19.05.00 14:49:15	Connection exist		
19.05.00 14:49:15	Read datapoint	Flow rate during measurement cycle	
19.05.00 14:49:17	Datapoint successfully read		1390
19.05.00 14:49:17	Read datapoint	Flow temperature	
19.05.00 14:49:20	Datapoint successfully read		55.9
19.05.00 14:49:20	Read datapoint	Return temperature	
19.05.00 14:49:23	Datapoint successfully read		39.6
19.05.00 14:49:23	Read datapoint	Temperature differential	
19.05.00 14:49:26	Datapoint successfully read		16.3
19.05.00 14:49:26	Read datapoint	Power during measurement cycle	
19.05.00 14:49:29	Datapoint successfully read		26092
19.05.00 14:49:29	Close connection	Test	
19.05.00 14:49:29	Connection is closed		
19.05.00 14:49:29	Result File closed		
19.05.00 14:49:29	Job stop (automatically)	Minutely Actual Values	

Commissioning notes

The batchjob software is installed according the Installation Instructions given on the ACS11... CD.

Operating notes

The ACS910 offers the usual Windows help functions. This means that the description of the commands and menus is available at any time.