

EVENT-MODEM user manual

(english)



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EVENT-MODEM

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EVENT-MODEM

1 Description

The event modem is used to can transmit the diverse status messages of a plant, the start or end of a control process, respectively calls for help and more information for example a service company or alarm signals in case of emergency to a security guard.

It is an automatic remote information system with 8 digital inputs / or outputs, 2 analog inputs * 2 analog outputs and 2 serial interfaces. It can be used everywhere, where messages via switching contacts are enabled, limits analogous monitors or superordinate plants via serial protocol must receive messages. Readily can be upgraded existing systems.

The DIN rail housing includes the microcontroller to detect the state of the plant and storing the message texts. A data / FAX - modem is used to report to the various message services. Work-or rest-circuit principle are selectable. LEDs are installed in the device for diagnostics and status indication.

* optionally depending on model and software

2 System requirements

2.1 Operating system(s)

- Windows 98
- Windows 2000
- Windows XP

2.2 Software

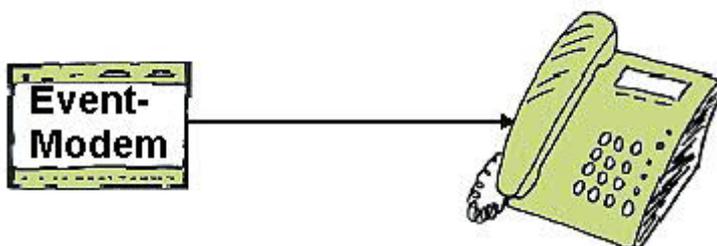
- Microsoft® Internet Explorer as off Version 5.5

2.3 Hardware

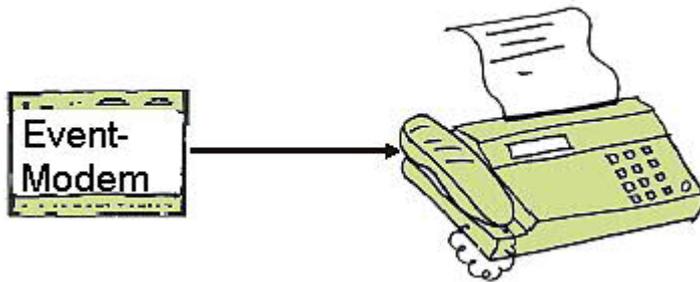
- 24V/DC mains power supply
- For the generation of voice messages: sound card, microphone, audio recorder

3 Connecting options

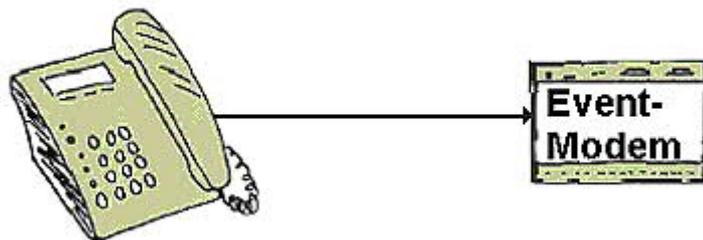
Direct Voice - Voice output with Event-modem



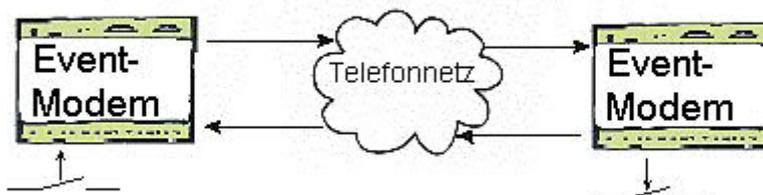
Direct fax



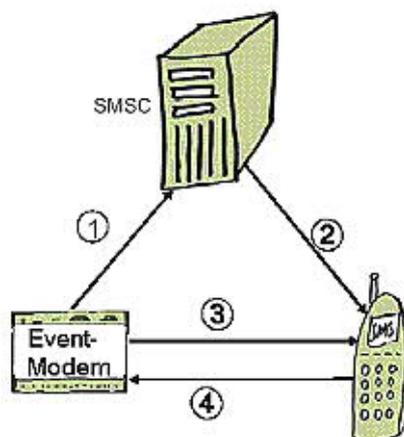
Remote switching via the keyboard and voice output



Remote switching with Event-modem to Event-modem



Message via SMS (SMSC)



1. Senden einer SMS
2. Weiterleiten auf Handy
3. Aktiver "Weckruf" und Aufforderung zur Quittierung
4. Quittierung

data logger

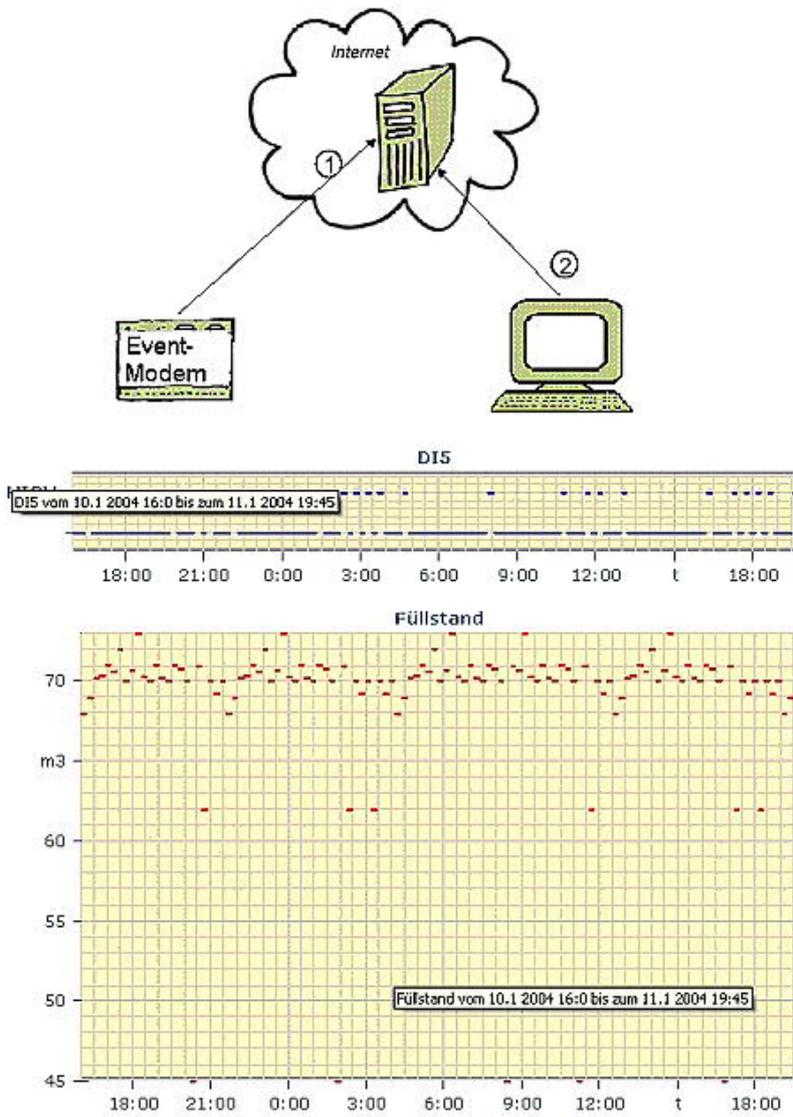
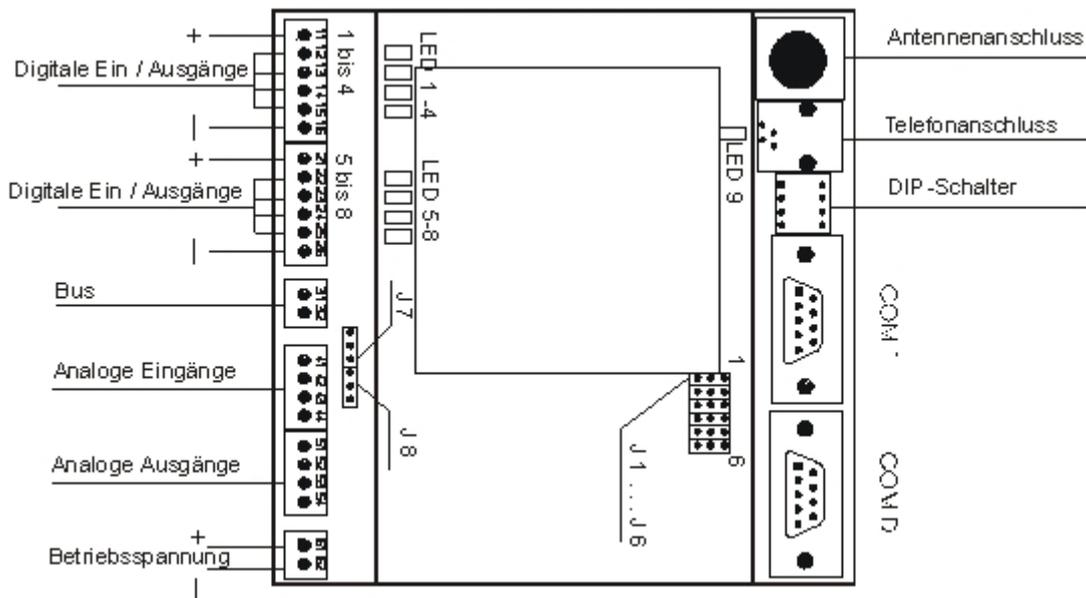


Abb. zeigen Funktion des Datenloggers, realisierbar mit EventModem Serie 200

4 Installation

4.1 Assembly / Disassembly

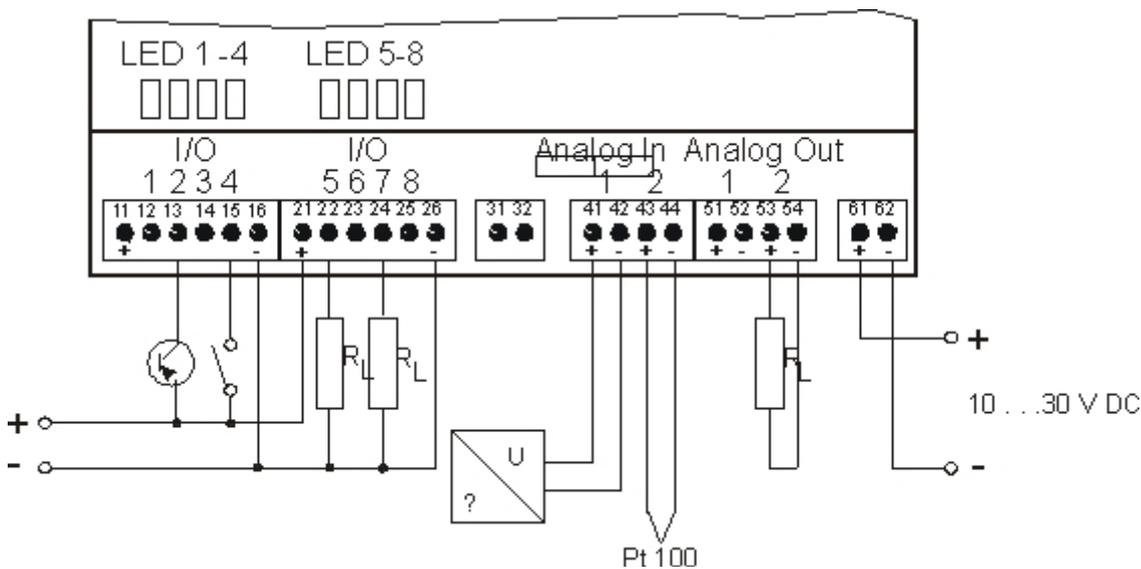


The assembly is carried out by clamps of the lower retaining groove (with the spring), then the device is pushed upwards and finally clamped the upper holding keyway onto the rail.

Dismantling takes place in reverse order: Press down the device and solve the front of the rail by tilting the upper part.

4.2 Electrical connection

Connection example:



4.2.1 Digital inputs and outputs

(embodiment variant see table in chapter "[selection matrix](#)")

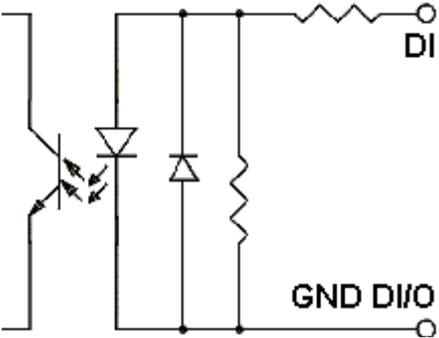
The Event-modem has a maximum of 8 digital inputs and outputs, individually configurable as opener or closer. Each input / output is associated with a red LED.

Technical data

Input	
input voltage	0 to 30 V DC

input voltage state 0	0 to 6 V / 0 to 1,2 mA
input voltage state 1	10 to 30 V / 1,5 to 4,5 mA

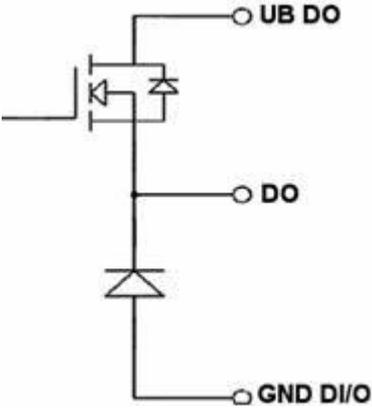
Replacement circuit for the digital inputs:



Output	
operating voltage	10 to 30 V DC
output current	max. 400 mA

The outputs are not short-circuit and overload proof.
Please note, when you have used the port before as input with connected GND and you switch to output!

Replacement circuit for the digital outputs:



4.2.2 Analog inputs

Event-modem A200	Event-modem G200	Software option
---------------------	---------------------	--------------------

The Event-modem has optional 2 analog inputs, which are used either for measuring voltages or currents.

Technical data

measuring size	area	measuring accuracy	remark

voltage	0 to 10 V (max. 30 V)	61 %	input resistance ca. 2 M Ohm
current (factory setting)	0 to 20mA (max. 100mA)	62 %	input resistance 100 Ohm

Setting the type of input signal:

analog input 1		analog input 2	
<u>jumper - J7</u>	<u>measuring range</u>	<u>jumper - J8</u>	<u>measuring range</u>
„left“	0-20 mA	„left“	0-20 mA
„without“	0-10 V	„without“	0-10 V

4.2.3 analog output

Event-
modem
A200 Event-
modem
G200 Software
option

The Event-modem has optionally 2 analog voltage outputs with the following technical data:

<u>output</u>	
output voltage	0 to 10 V
load resistance	1 k Ohm
max. output current	10 mA

4.2.4 telephone connection

Event-
modem
A100ECO Event-
modem
A200

Connect to the analog telephone network.

4.2.5 antenna connection

Event-
modem
G100ECO Event-
modem
G200

In the GSM devices is the antenna plug (version FME plug).

4.2.6 Inter modules-bus

Event-
modem
A200 Event-
modem
G200 Event-
modem
X332

Optionally via a RS485 bus can be coupled multiple devices to one another. This allows e.g. to be increase the number of inputs and outputs.

4.2.7 DIP switch

About 4 DIP switch of the S1 are set the different operating conditions (programming mode, diagnostic, reset ...).

DIP switch assignment (S1)

<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>function</u>
OFF	OFF	OFF	OFF	operating as a reporting system
ON	OFF	OFF	OFF	On-site programming mode (factory setting)
OFF	ON	OFF	OFF	at applying the operating voltage, will be reset only the devices access to factory settings
ON	ON	OFF	OFF	Reset all default settings at applying the operating voltage

 Wait until all of the input LEDs are red and the green LED 9 will flash, then factory setting is made!

The DIP switches 3 and 4 are required for the regular factory settings.

4.2.8 Serial Interfaces

Event- modem A100ECO	Event- modem A200	Event- modem G100ECO	Event- modem G200
----------------------------	-------------------------	----------------------------	-------------------------

COM 1 **Programming interface**

programmable as either RS 232 or RS 485, factory setting RS-232 (see assembly drawing)

for communicating with an external control device (such as a PLC) and for programming



At the Event-modem A100ECO / G100ECO is possible only the transparent mode (settings 9600bps 8N1) for external access via Event-modem to the PLC, all other settings of the COM 1 for A200 / G200 see 6.2.11.

COM D **Diagnostic interface**

RS 232 with reduced circuit

For the issue of status and diagnostic information (connection cable between the COM D and interface on the computer)

z. B. e.g. via HyperTerminal

Setting:

- 4800 bps
- 8 data bits
- no parity
- 1 stop bit
- data flow control off

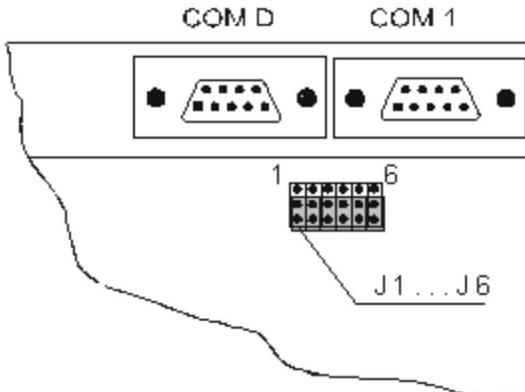
Example of outputted data:

Event-modem A100 ECO 0.1

system test

test EEPROM OK
test modem
modem initialization OK

Option: Setting the COM 1 as RS 485



Change the default setting by adding the jumper J1 to J6 a slot toward the middle devices (see figure) after opening the device.

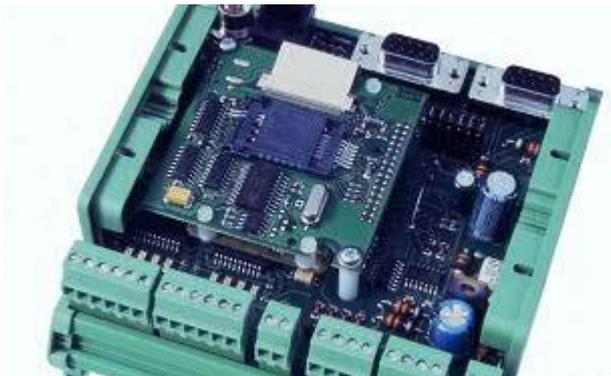
COM D and COM 1 are thus exchanged and COM 1 is adjusted as RS 485.

4.3 Put in SIM card into the GSM modem

(for Event-modem G 100 and G 200 ECO)

For G100 and G200 is required a SIM card (3V technique) (not included). Older cards (5V technology) are not usable!

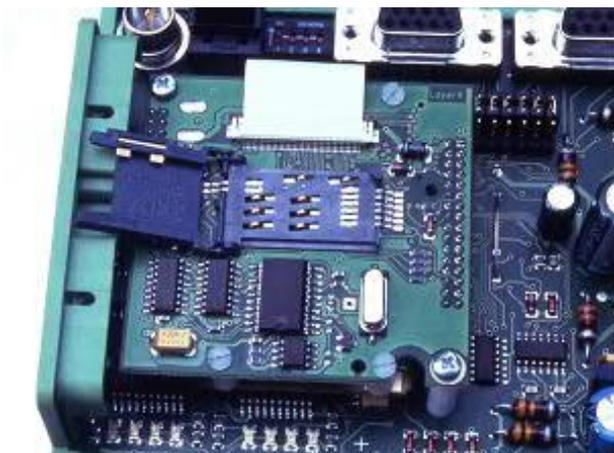
Insert card to the device when the power is off.



After unscrewing the 4 cylinder screws, the upper plexiglass cover is opened.

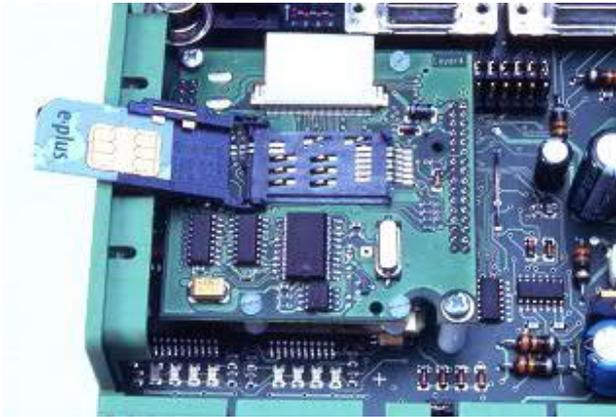


Before touching the electronics is to care for a static discharge!!!



The holder for the SIM card is locked by a lid.

This is opened by pushing back the flap (arrow direction).



Insert SIM card with the chip to the inside of the appliance.



Close the lid and screw case.

5 Implementing

5.1 Switch on behavior in normal operation

After applying the operating voltage are performed various self-tests, a progress monitor light in succession on the LEDs on the digital inputs / outputs, ranging from LED 8 to LED 1 (in plexiglass case above X1 and X2). In the case of an error of the red LED comes on steady.

If everything is OK, the green LED lights last 9 (power indicator) in the Plexiglas enclosure below telephone X8.

5.2 Example of fax message via Event-modem (Quick Start Guide)

Requires factory settings

- Setting up a dial up connection
- Cable PC - Event-modem (eg COM 1-COM 1) and telephone line cord, S1 ON OFF OFF OFF, 12/24 V DC to X6
- start dial-up connection, typing in a username and password => Connect
- Enter in the web browser <http://215.0.0.1/index.htm>
- Enter phone number in the Event-modem (under General Settings)
- Enter message text for Input 1, select the target phone number and reporting service fax (under messages)
- S1 OFF OFF OFF OFF
- Create 12 V / 24 V to input 1 (for 1 s)
- Event-modem sends fax message

5.3 Messages via serial interface COM 1

5.3.1 TUP protocol description

Over the serial interface COM 1 can be send messages. The protocol for data exchange between control and Event-modem consists of ASCII character strings that are sent as an operation from the controller to the Event-modem and as feedback from the event to the modem controller. There are two operations that send operation and the query operation.

5.3.2 Structure of the transmission operations

The transmitting operation begins with the control characters STX and ends with ETX. It consists of three parts, the text number, the delimiter and the text area.

Spaces shall be used only in the text area!

Sake of greater clarity, in the following descriptions were set spaces among the parts of the string!

S 01 # Hello E

<u>section</u>	<u>example.</u>	<u>function</u>	<u>declaration</u>	<u>remark</u>
	S	Control character	STX Character string beginning	Hex 02
1	01	Message number	Number of the message that is to be started 01 to 32	always 2 digits
2	#	delimiter	- Delimiter in transmitting operations ? - Delimiters in query operations and feedbacks ~ - Delimiter in the RESET operation	Hex 7C Hex 3F Hex 7E
3	Hello	variable text	max. 80 ASCII characters, only at transmit operations is inserted this text into the placeholder # VAR # in the message text (see chapter messages) Dont use text blocks within the variable text such as # DATE #!	
		empty	during query operations	
	E	Control character	ETX character string end	Hex 03

5.3.3 Structure of the status queries

There are two different query operations:

- The query of the reporting state always refers to the selected message with the message number.
- The query of the general state displays the number of notifications (max. 4) and its message number to in the command buffer.

The operations are distinguished by the message number and have the following form:

<u>Query operation function</u>	<u>function</u>	<u>response</u>	<u>function</u>
---------------------------------	-----------------	-----------------	-----------------

S 00 ? E	Query operation, initiates a general status request	S 00 ? XX NNNNNN E	XX – Number of messages in the buffer NN – message numbers
S 01 ? E S 32 ? E	Query operation to the message 01 and the message 32	S 01 ? YY E	YY – Status code of the message 01, see table status values and error codes.

If all four of the command buffer memory locations are occupied and the messages are not processed, the control line of the serial interface DSR is switched to inactive. Thus, the controller indicates that currently will be accepted no further messages. Sends the control device anyway, the data is ignored.

5.3.4 Codes in the feedbacks

The feedbacks transmit the status of the transmitted Event-modem messages. The feedback is triggered by a query operation. The status of a message can be retrieved at any time. In response the following status values:

<u>Status value</u>	<u>meaning</u>
00	command was processed without errors
67	command buffer is full (maximum 4 operations at TUP)
69	is not a valid command
70	message number is not between 1 and 32
73	no command with the used reference number in buffer
74	reference number is not longer free
75	command is queued
76	command is processed

5.4 Functioning of

5.4.1 output functions

The messages can be displayed time-controlled, independently of the type of the message. There are the following main functions:

- Occurrence reporting by fax, voice, SMS, e-mail
- Routine call (eg, each at the same time)
- Remote control via www or phone (DTMF voice performed)

5.4.2 Types of the message

5.4.2.1 Sending a SMS with Acknowledgement

By triggering a reporting operation:

- Connecting to the SMSC (Short Message Service Center)
- Transmitting a message to the SMSC

When message successfully deposited:

- direct dialing of mobile phone number
- Request for acknowledgment by transmitting a sequence of notes (variants ECO) or a

message as spoken text

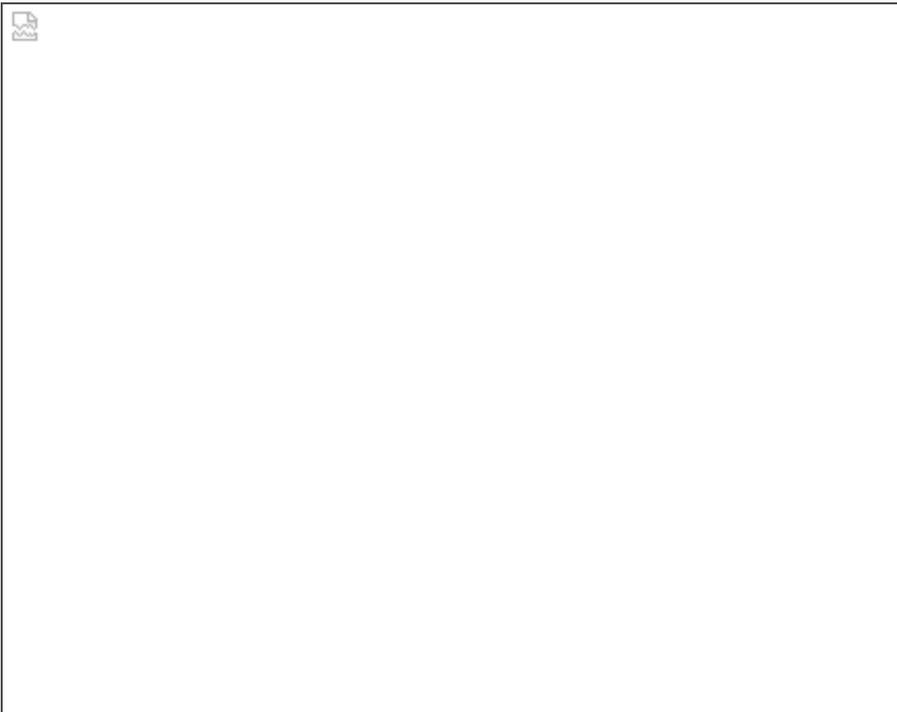
- Recipients must be acknowledged by pressing a number key (0-9) or
- enter them for confirmation with programmed acknowledgment PIN (except 0000)

If correctly:

- The Event-modem sends three short beeps (variant ECO) or a voice message
- finished the transfer and deletes the alarm

If not received (correct) acknowledgment:

- The Event-modem sends one long beep, or the appropriate voice message
- finished transmitting
- set number of redials done or
- the next in the message chain is called



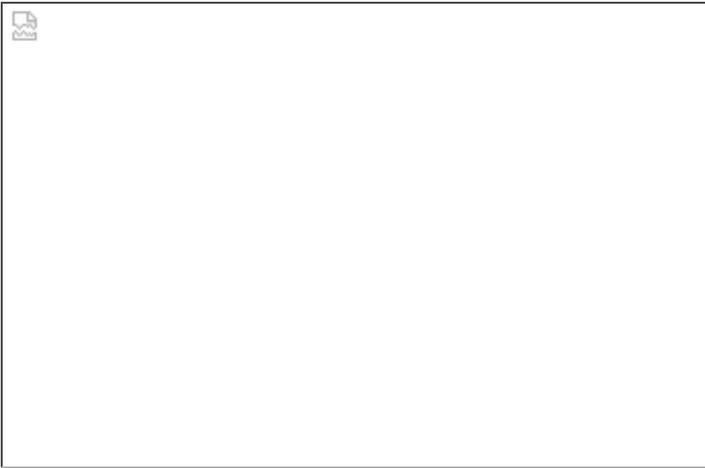
5.4.2.2 Message via fax



Event-modem sends message by fax, directly without any detours.

5.4.2.3 Sending a fax, via SMSC

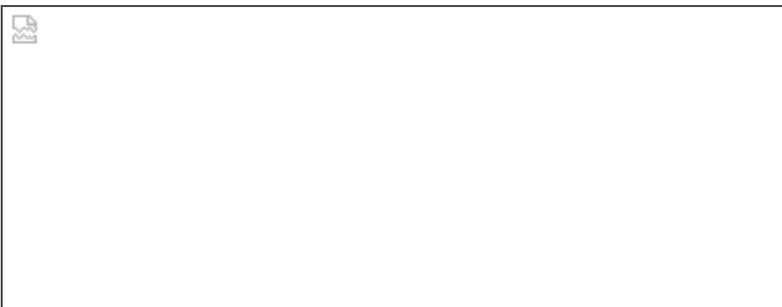
Event-modem	Event-modem
G100ECO	G200



1. Send a fax
2. Forwarding via Gateway
3. to the fax

5.4.2.4 Message as voice message

Event-
modem Event-
A200 modem
 G200



message via voice Event-modem
says to message text

5.4.2.5 message via email



1. message as an email
over a ISP
2. to the SMTP server
3. pick up the e-mails

5.4.3 Remote switching



Connection inclusion to the Event-
modem via telephone (A100 /
G100)

Transmission of control commands
to the Event-modem outputs via
touch tone dialing:

- Entering the PIN
- Press button for output
number
- Press button for switching

command

1 = ON / 0 = OFF

for example:

11 = Output / 1 ON

10 = Output / 1 OFF

Event-modem A200 and G200 speak with you:

After the telephone dial-in announces the Event-modem itself:

„Event-modem. Please enter PIN “

=> Enter the PIN.

„PIN correctly. Please select:

1 – Remote control

2 – Remote inquiry

9 – temporary data mode for GSM devices "(see below)

=> for example press button 1 for remote operation

„Please enter the output“

=> eg. Press button for output number 5.

„Output 5, value?“

=> Press key for switching command

1 = ON

0 = OFF

„Please type in output“

=> * Back to Select Remote control / remote inquiry

=> ** Ending a call

Temporary data for GSM mode devices, which operate only with a single telephone number(in voice mode):



- Type in 9

- Event-modem hangs up

at the next call the Event-modem goes into data mode (only once, every subsequent call back in the Voice mode)

5.4.4 transparent mode

Event-modem A200	Event-modem G200
---------------------	---------------------



Trigger the connection inclusion with a corresponding input signal from a control over the Event-modem and the telephone network to another control

Transmitting data between both controllers, see also [Setting the serial interface](#)

5.4.5 State transfer on second Event-modem

Event-
modem
A200

Event-
modem
G200

Event-modem 1

Event-modem 2

Triggering the connection inclusion at level change at the input of Event-modem via the telephone network to another Event-modem



Switch of an output on the second (called) Event-modem

[\(also see X-CONN-Protokoll\)](#)



In GSM only with data card!

6 Configuration

Input and storage of all required datas, such as dispensed message texts, phone numbers and other settings into the Event-modem.

6.1 Preparation of the configuration

The Event-modem can be connected to the serial port of a PC means of a programming cable or will be configured directly over dial-up connection. The parameters are set via web browser (eg Internet Explorer 5.5).



6.2 Set Dial up connection

First, there must be made a "dial-up".

If you are using FireFox under Win7, please use version V25.0.1 (32-Bit) and "IE TAB V2" as AddOn installed.

Only in this way can the eventmodem be parameterized. IE from V9 has problems.

6.2.1 under Windows 98

6.2.1.1 Preparing the dial-up connection

Install new modem respectively add:
under control panel => click the modem icon "Modems"
Select "ADD" => OK



Select modem yourself

i.e. "tick" at no automatic detection

=> click "Next"

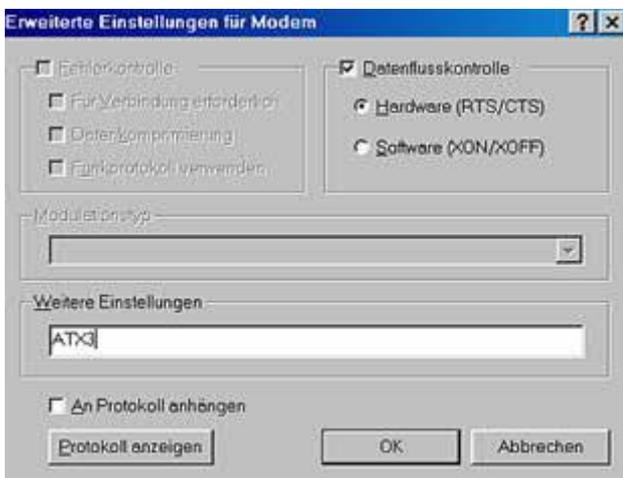
In the following image: select modem (standard modem 33600bps) => Next
 Select connection for the modem (COM 1 or COM 2) => Next => Finish

In the window (Modems Properties) you can now select the button "Properties" for the new modem. Select at "maximum speed" 38400 bps.

Check the following entries:

- 8 data bits
- no parity
- 1 stop bit

Then Select button "Advanced".



Check records like beside.

"Further Settings":

Is depending from modem- and telephone connection
 (e.g. ATX3 as default for extension valid for most modems)

=> close everything with 2 x OK

6.2.1.2 Install dial up connection

My Computer => Select in the dial up networking "Create New Connection => "Next"



Name of the connection
 enter (e.g. Event-modem)
 => Next

Enter phone number of the Event-modem
 => Next => Finish

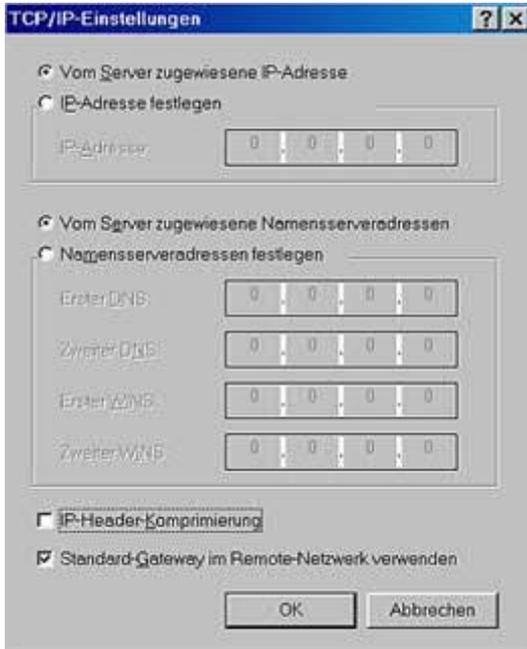


Right click on the icon dial up connection and select "Properties".



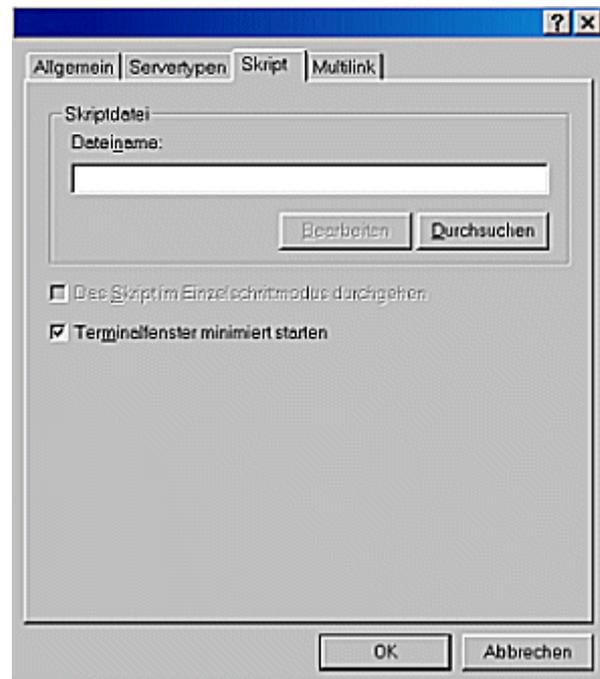
Select modem (same modem as under 1)
 => Select tab page "Server types"

Set type of dial up server (PPP Internet Windows NT Server Windows 98).
 Take out possibly existing settings under "Advanced Options", only select TPC / IP under "Allowed Network Protocols".



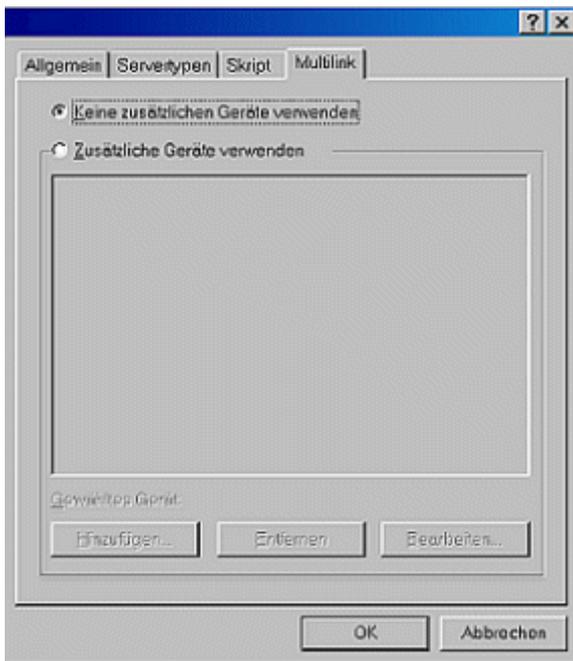
„Click "TCP / IP settings"

Settings like beside => OK



Tab "script"

=> "Tick" at "start the terminal window minimized"



Tab "Multilink"

use no additional equipment

=> OK

6.2.2 under Windows 2000

6.2.2.1 Preparing the dial up connection

Install new modem:

Control Panel => Phone icon and select Modem Options

=> Select Location => on tab Modems
=> select Add



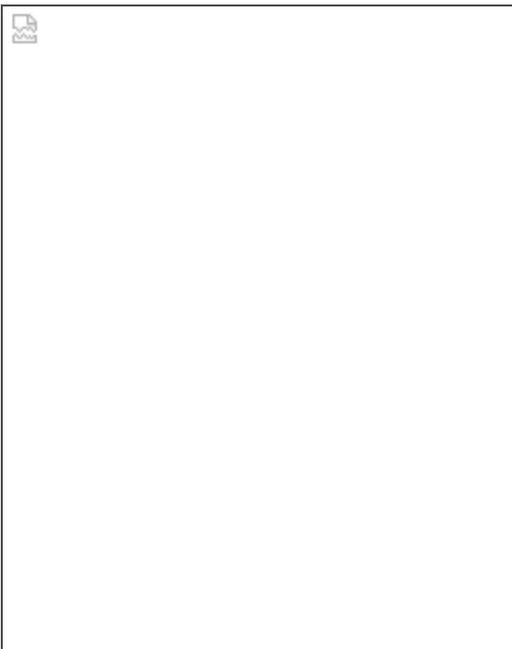
Hardware wizard for setting up a new modem:

=> Set tick at "Do not detect" and

=> confirm with "Next"

=> In the following image: Select modem
(Standard Modem Types => Standard modem 33600bps) => "Next"
=> Select interface on the PC for the modem (COM 1 or COM 2)
=> "Next" => "Finish"

Under Control Panel double-click on the icon Phone and Modem Options,
select the button "Properties" for the new modem in the window "Phone and Modem Options".



Tab "Advanced Options"

=> Changing the Default Settings

=> Select on the tab "General" the transfer rate 38400 bps
=> Check the following entries on tab "Advanced Options":

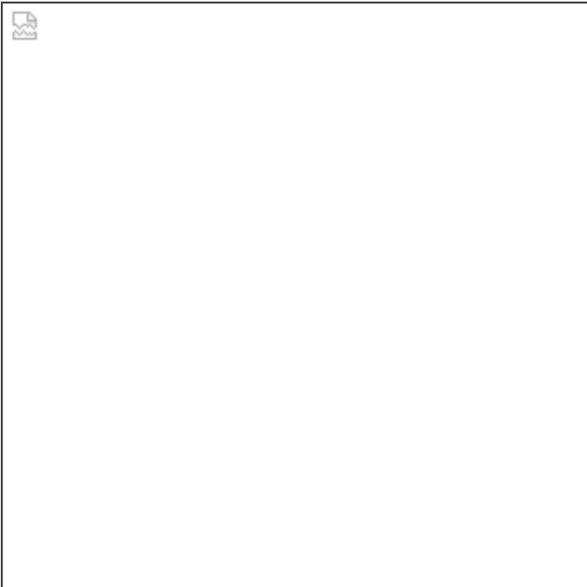
- 8 data bits
- no parity
- 1 stop bit

=> Confirm with "OK"

6.2.2.2 Install dial up connection

My computer => Select network and dial up connections:
"Create a new connection"

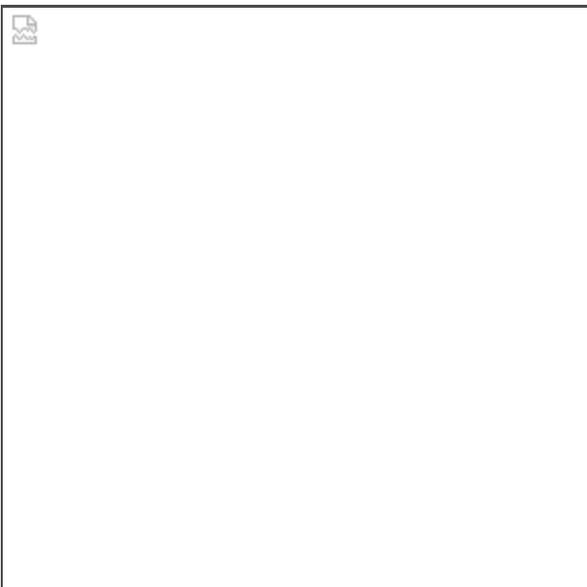
Network connection wizard to set up a new connection => "Next"



Select "In the Internet"

=> „Next“

Select in the windows of the Internet Wizard:

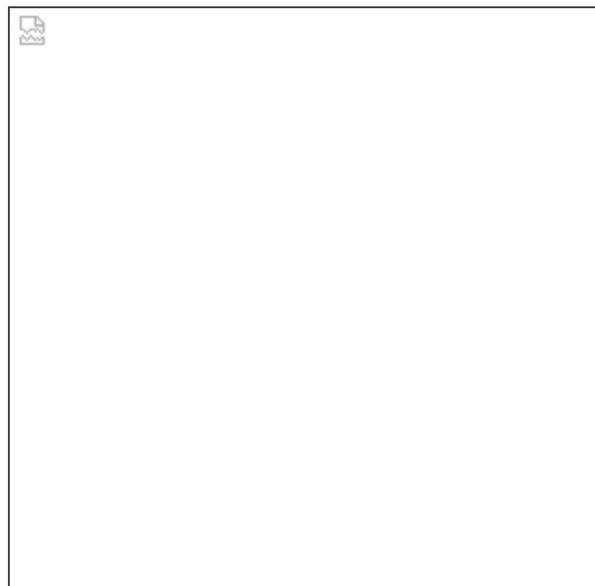


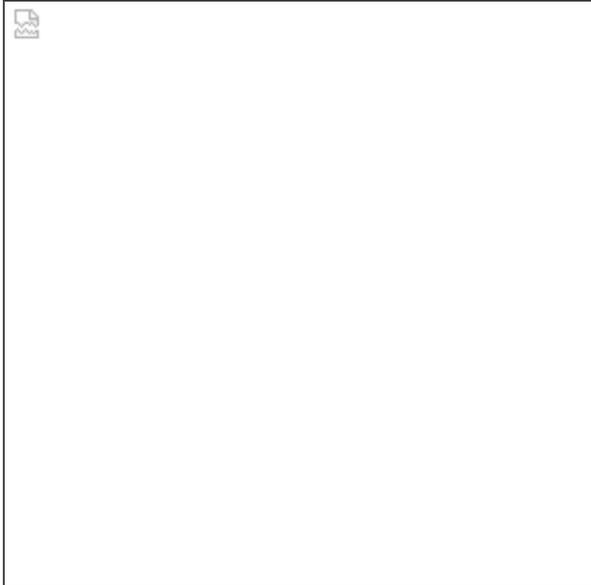
Manual setup of the internet connection

=> "Next"

Connection via telephone line and a modem

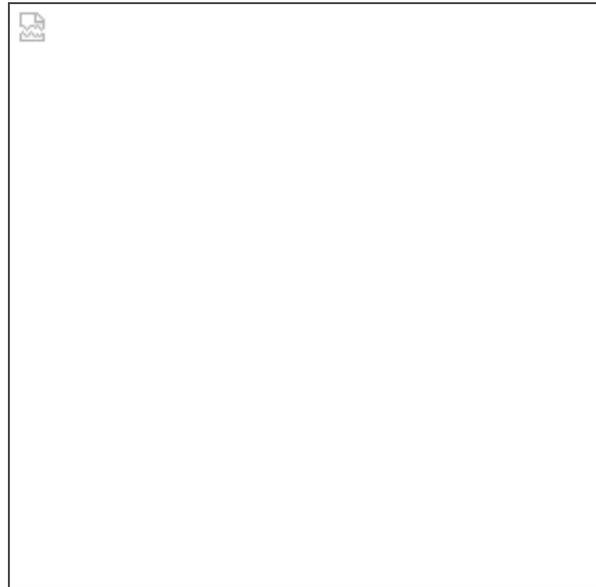
=> "Next"





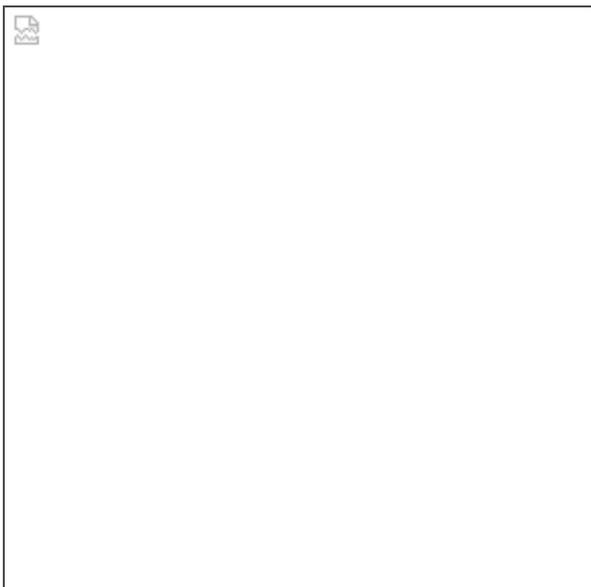
type in the number of Event-modems

=> "Next"



user name: 12345
password: 12345

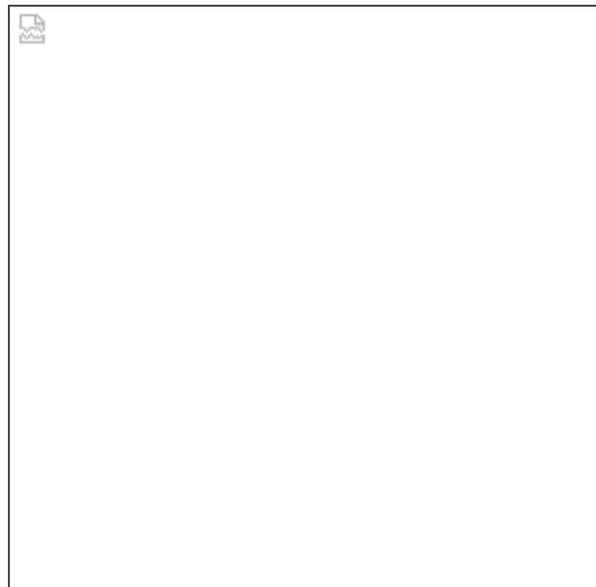
=> "Next"



name of the connection

freely selectable (here for example Event-modem)

=> "Next"



Internet mail account:
Select „no“

=> "Next"

=> „Finish“



My computer => Network and dial up connections
=> Right click on the the icon of the new connection
=> Select „Properties“



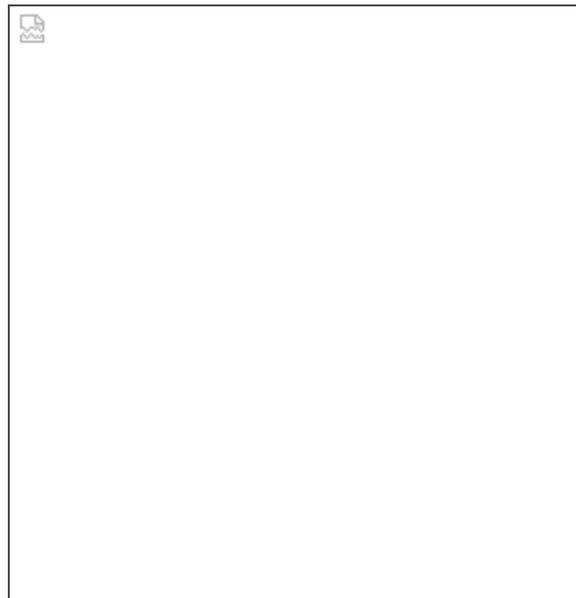
Select modem
(Standard Modem 33600bps)
=> „Configure“

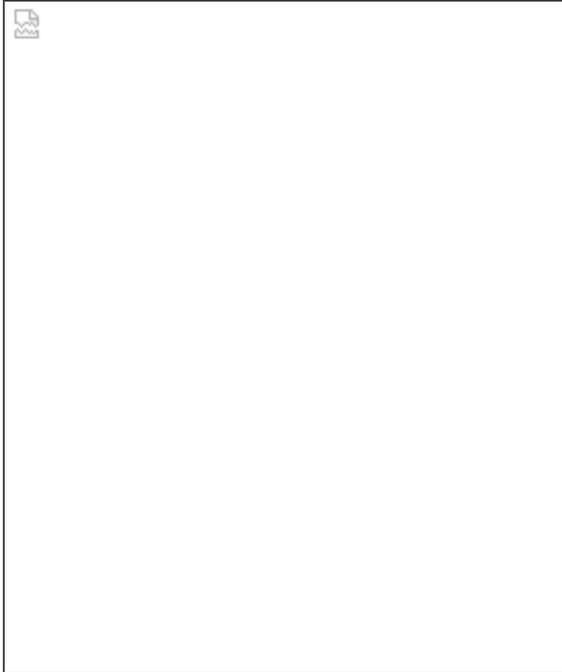
modem configuration:
38400 bps

- => Activate hardware flow control
- => Activate modem error control
- => Activate modem compression
- => Use modem speaker

- => "OK"

return to properties of the Event-modem.





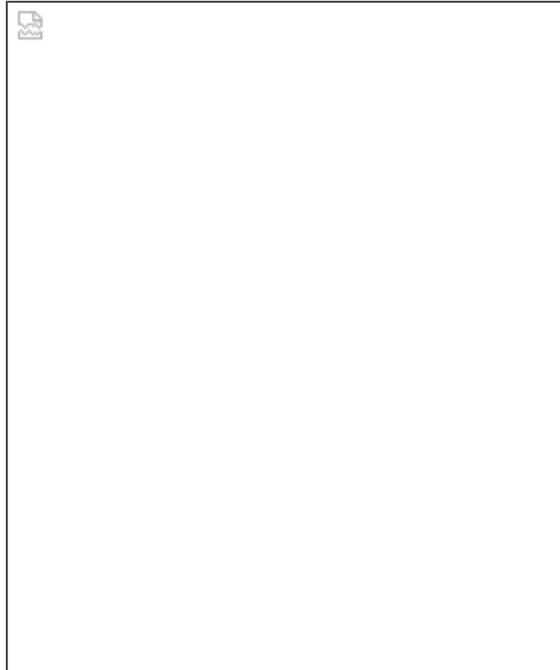
tab options

- => Show status during the selection
- => Query name, password and certificate

Number of redials "3"

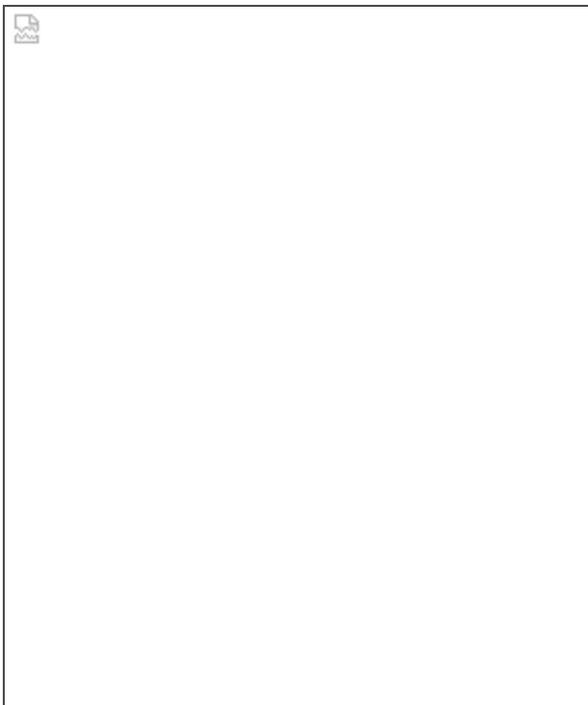
Time between redial attempts "1 minute"

Idle time, before hanging up is "Never"



tab safety

- => Select security options "typical"
- => Permit weak password



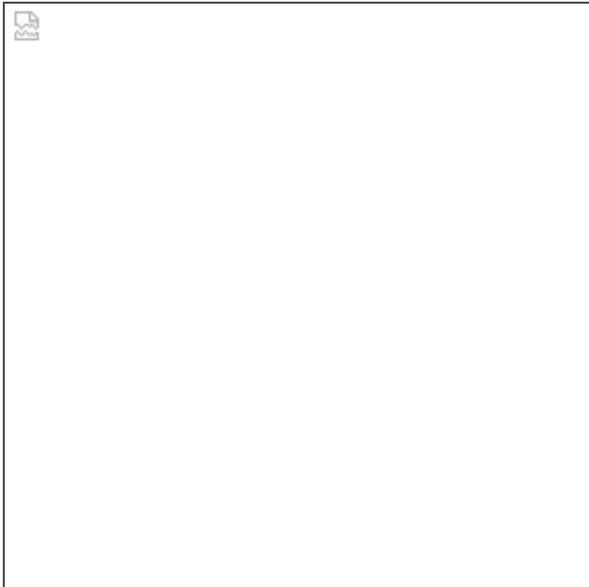
tab network

Type of the called dial in servers:
PPP Windows 95/98/2000 internet

Under settings
Activate LCP extensions
=> "OK"

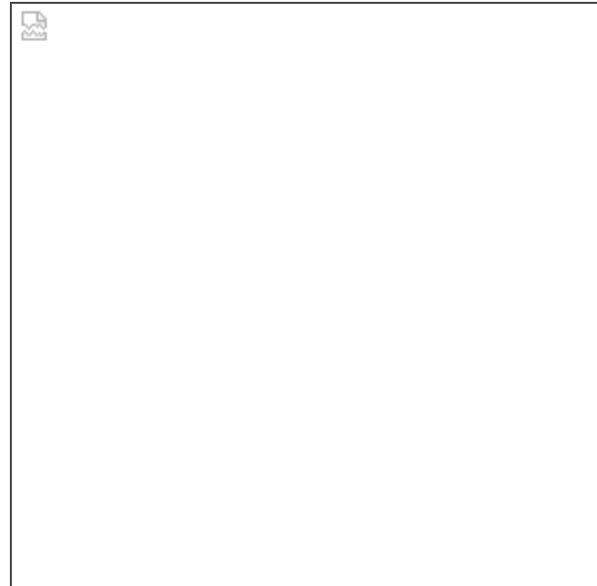


=> Select Internet protocol (TCP / IP)



Buttons properties => Obtain an IP Address automatically / Obtain DNS server address automatically

=> "Advanced"



=> Use default gateway on remote network

under PPP link:

Do not select IP header compression (remove check mark)

=> "OK"

6.2.3 Under Windows XP

6.2.3.1 Preparing the dial up connection

Install new modem:

Control panel => Select icon Phone and Modem Options



on index card modems

=> Select "Add"

Hardware wizard is started for setting up a new modem:

=> Tick at "no autodetection"

=> "Next"



=> In the following window: Select a modem (Standard Modem Types => Standard Modem 33600bps) => "Next"



Select interface on the PC with which the Event-modem is connected to.

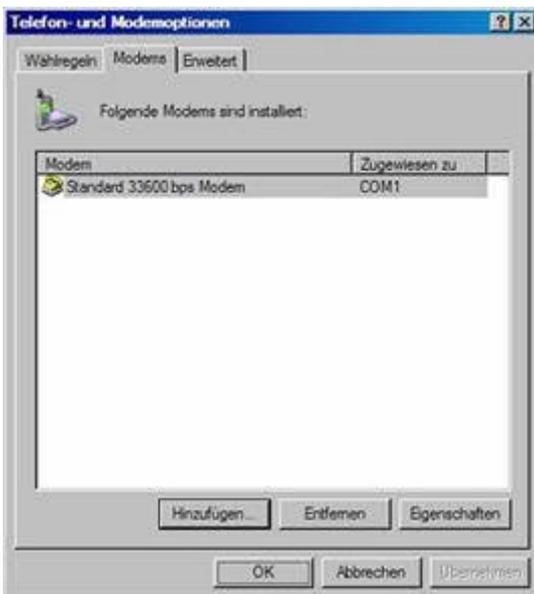
(COM 1 or COM 2)

=> "Next" => "Finish"

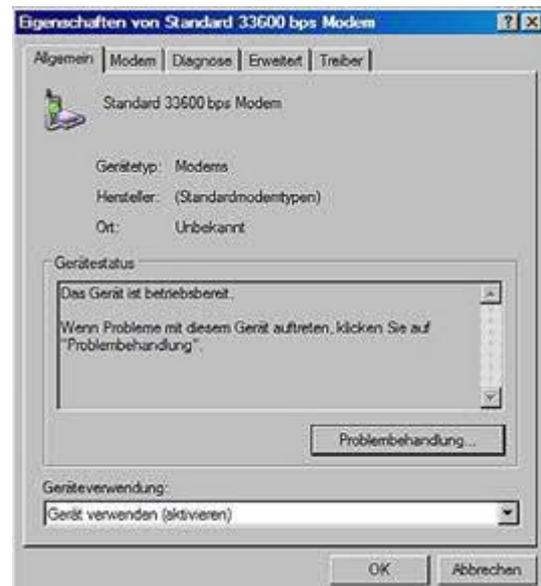
The modem installation is now complete.

6.2.3.2 Setting Modem Properties

Under Control Panel, make a double-click on the icon Phone and Modem Options.



select the "Properties" for the new modem



Card "General"

<Use this device (Activate)> must be selected

- Select on the tab "Modem" Maximum transmission rate 38400
- Tab "diagnosis": Do not make any entries
- Tab "Advanced": Do not make any entries
- Tab "driver": Do not make any entries

=> Close the window with "OK"

6.2.3.3 install dial up connection

Under Control Panel > Select Network Connections icon:
on button "New connections wizard".

starts "New connections wizard" => "Next".



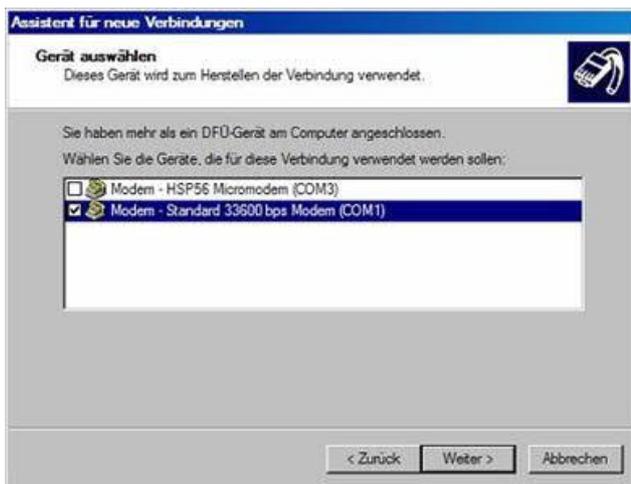
Select "Connect to the network at my workplace"

=> "Next"



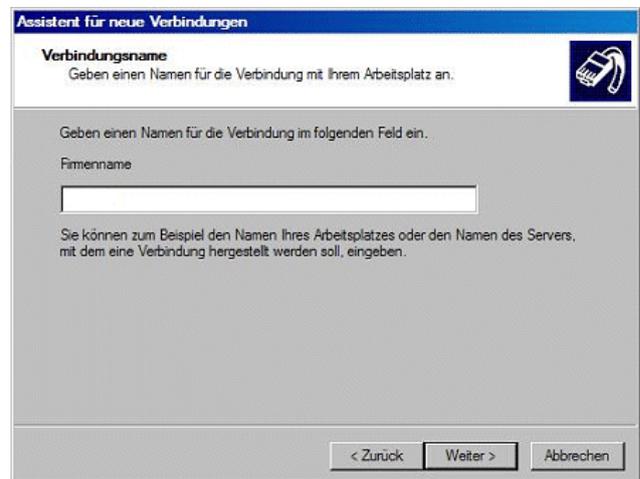
Select "dial up connection"

=> "Next"



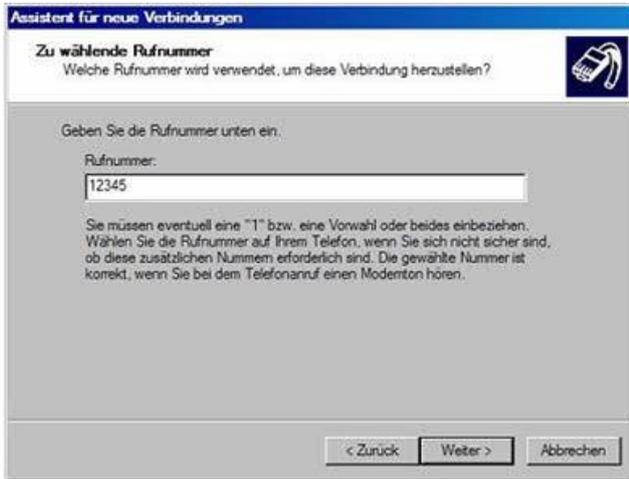
Select the previously installed modem

=> "Next"



distributed names for the dial up connection (for example Event-modem)

=> "Next"



Enter any telephone number

=> "Next"

Tick at "add shortcut on the desktop"

=> "Finish"



Tick at "safe user name and password for" => Select "Only for own use"

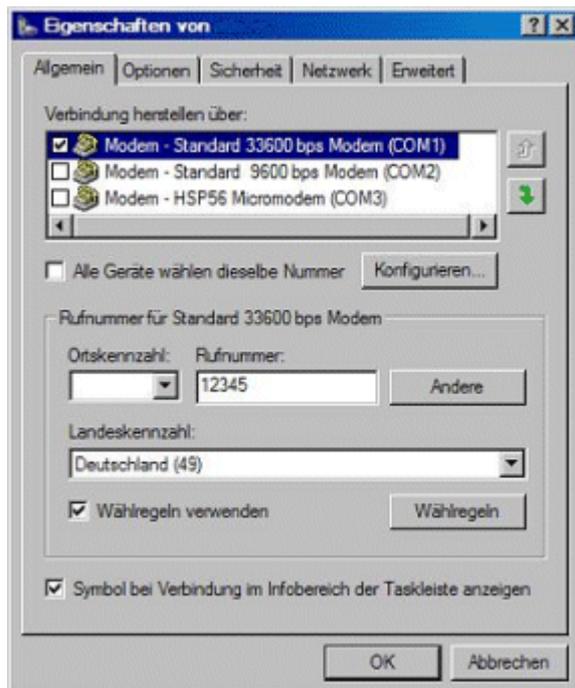
click on Properties



Card "General":

here only must selected the previously installed modem

click on "Configure"



modem configuration:

38400 bps

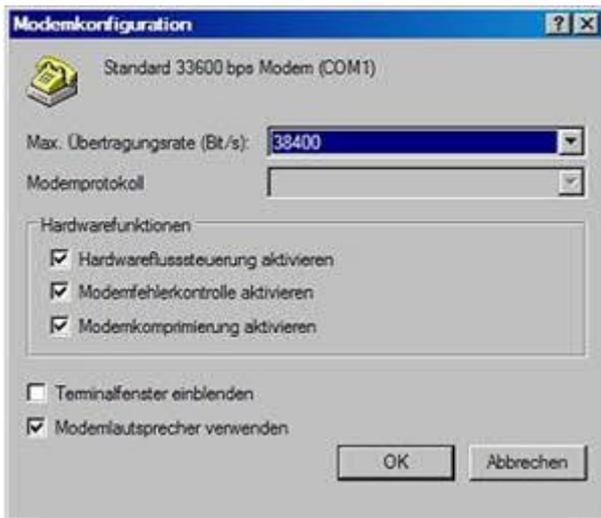
=> Activate hardware flow control

=> Activate modem error control

=> Activate modem compression

=> Use modem speaker

=> "OK"



This window appears after clicking on "choice rule"

It should appear the once chosen location

=> "OK"



Card "Options"

=> Show status while dialing

=> Query name, password and certificate

Number of redials "3"

Time between redial attempts "1 minute"

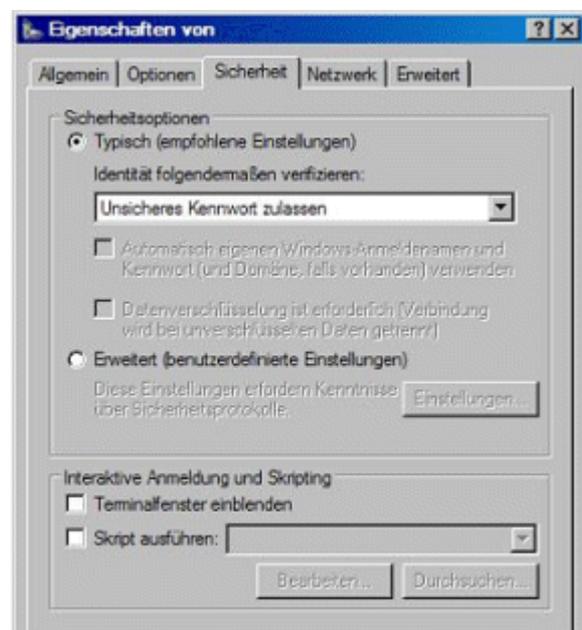
Idle time before hanging up are "20 Minutes"



Card "Security"

=> Select Security options "typical"

=> Permit weak password





Card "network"

Type of dial up server:
PPP Windows 95/98/NT4/2000 internet

Click on settings
Activate LCP extensions
=> OK



=> Select internet protokol (TCP/IP)



Button <Properties>

=> Obtain an IP Address automatically

=> Obtain DNS server address automatically

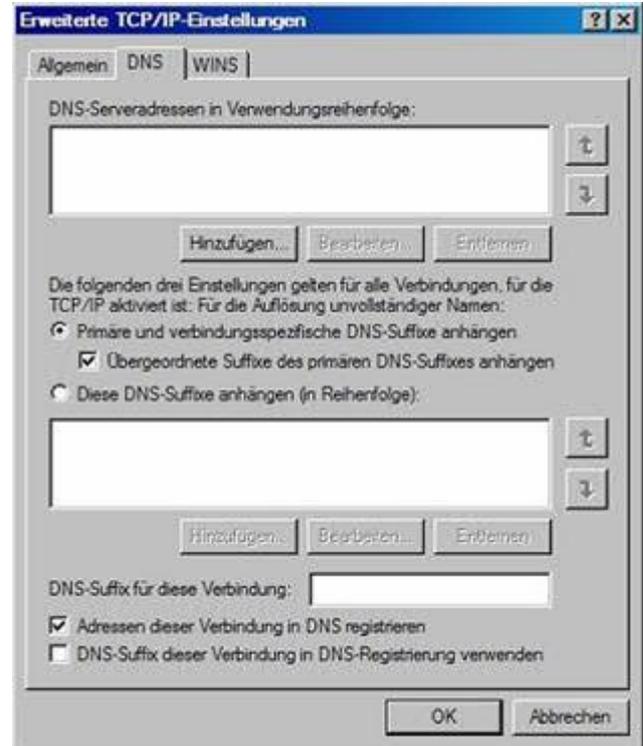
=> click on "Advanced"



=> Use default gateway on remote network

under PPP link:

Do not select IP header compression (remove check mark)



Card "DNS"

"Show in the picture checkboxes" must be set



Card "WINS"

"Disable NetBIOS over TCP / IP" must be set => "OK"

(Back to properties of the Event-modems)

Card "Advanced"

"Internet Connection Firewall" must not be set



6.3 Settings at the Event-modem



Direct connection to the Event-modem via programming cable

- Connection cable between PC (RS 232 interface) and Event-modem (COM1 or X9)
- Setting the DIP switch S1 1 0 0 0 (ON-OFF-OFF-OFF) for configuration mode
- Add Voltage to the Event-modem (12/24 V DC to X6), green LED 9 (next to a telephone line) flashes

- User name: 12345
- Password: 12345
- Establish dial-up connection (see settings on instructions for establishing a dial-up connection) => Connect
- Type in the browser <http://215.0.0.1/index.htm>

Verbinden mit

Event-Modem

Benutzername: 12345

Kennwort: *****

Kennwort speichern

Ruflnummer: 0 01033

Standort: [Dropdown] Wahlparameter...

Verbinden Abbrechen



Connection to the Event-modem via modem

- The Event-modem is in operating state
DIP Switch S1 0 0 0 0 (OFF-OFF-OFF-OFF)
Voltage applied (12/24 V DC at X6)
- Establish dial-up connection via modem - number of telephone access
- Type in the browser <http://215.0.0.1/index.htm>

6.3.1 Main menu

Starting from the main menu you get into all the sub-menus for configuring the Event-modems.

Meaning of the buttons in the menus:

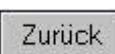


Accept settings

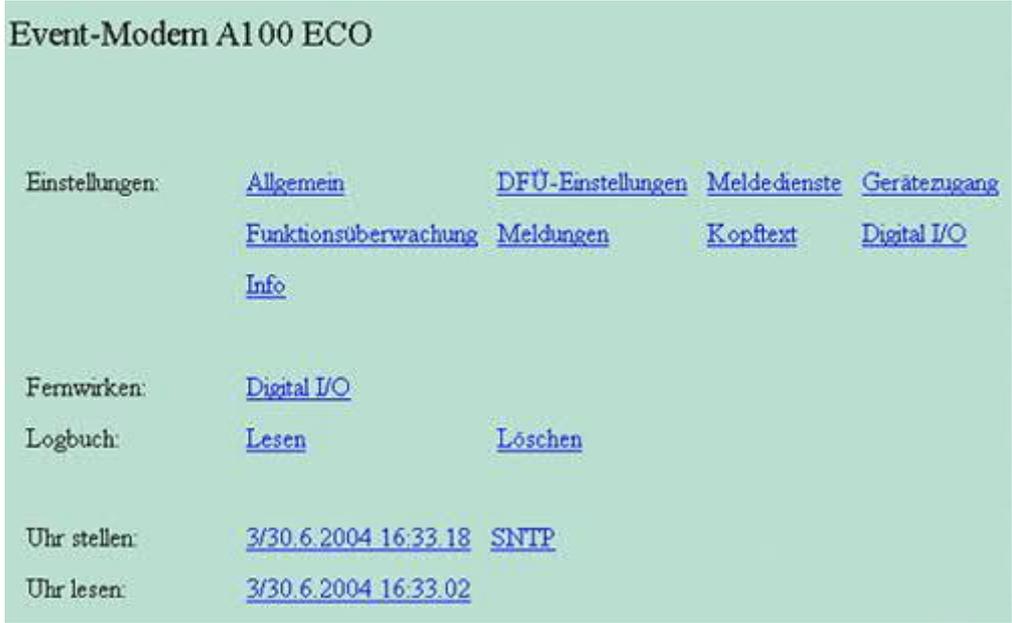
After OK, always wait until the browser displays "Done" in the status bar!



Restoring the factory settings



Return to main menu



6.3.1.2 Event-modem A200 and G 200

Event-modem A200 Event-modem G200



6.3.2 General settings

6.3.2.1 Analog modem

Event-modem A100 ECO Event-modem A 200

- maximum 4-digit station identifier, freely selectable (eg entry appears in the header of the transmitted email)
- For acknowledgment of messages here can be set a PIN (four digits)..
- Number of telephone access of Event-modem (only digits, and spaces available), input required!
- Election method, (usually tone)
- Enter possibly necessary area code for the outside line
- Deciding on the number of retries, the default is 3

=> OK (After OK always wait until the browser displays "Done" in the status bar!)

=> Return to the main menu

6.3.2.2 GSM modem

Event-modem G 100 ECO
Event-modem G 200

Settings as analog except:

=> Enter PIN code of the SIM card (insert SIM card before)

0000 for cards that work without PIN

=> OK (After OK always wait until the browser displays "Done" in the status bar!)

=> Return to the main menu

6.3.3 Dial-up settings

Enter provider
3 often used providers are already registered

In case of changes of the provider, if necessary
enter 3-fold the same data, let nothing free!



This call-by-call providers do not offer internet access for GSM modem.
For GSM devices, the internet access of the respective provider must be used.

DNS server:

DNS1 IP adress:
The provider will automatically assign an IP address.
A registered IP address is overwritten by the provider with the current DNS IP.

DNS 2 IP adress:
Providers will be automatically assign a further IP address.

=> OK (OK After always wait until the browser displays "Done" in the status bar!)

=> Return to the main menu

DFÜ-Einstellungen

DFÜ-Verbindung 1

Provider:
Rufnummer:
Benutzername:
Kennwort:

DFÜ-Verbindung 2

Provider:
Rufnummer:
Benutzername:
Kennwort:

DFÜ-Verbindung 3

Provider:
Rufnummer:
Benutzername:
Kennwort:

DNS-Server

DNS1 IP:
DNS2 IP:

6.3.4 Reporting services

- Only after a change at service provider, change the settings on the various reporting services (SMS D1, D2, SMS, fax, etc.)!
- Specifies whether the message can be acknowledged.



SMSC numbers normally NOT adjust!

The New button for adding new services.
The services HTTP message and LogMAIL LogHTTP are explained in the section Additional functions.

Name:
Protokoll:
Textlänge:
Ländervorwahl:
Ländervorwahl SMSC:
Quittung möglich: ja nein
SMSC Rufnummer:
InitString:

6.3.5 Email settings

When setting the reporting service on the "E-mail", other settings can be activated.

=> As hostname is set the Event-modem.

=> The email address of the sender is being inputted using standard address for testing purposes.

- SMTP server: it is sufficient to enter the name (or if known, the IP address).
Caution: When entering a name this always will be used, even if it not match with the registered IP address.
Optional setting:
- In "Before Sending Contact POP", by some providers is required the identification of users.
- Registration of the POP address for the email reception.
Caution: Here again when entering a name this always will be used, even if it not match with the registered IP address.
- Enter POP USER ID and password,

=> "OK" (After OK waiting always until the browser displays "Done" in the status bar!)

=> Return to the menu reporting service

Beispiel für Funktion PING über Start --> Ausführen
Eingabe von:
PING mail.gmx.net

gesuchte IP-Adresse

```
PING wird ausgeführt für mail.gmx.net [213.165.64.20] mit 32 Bytes Daten:
```

```
Antwort von 213.165.64.20: Bytes=32 Zeit=55ms TTL=248
```

```
Antwort von 213.165.64.20: Bytes=32 Zeit=52ms TTL=248
```

```
Antwort von 213.165.64.20: Bytes=32 Zeit=54ms TTL=248
```

6.3.6 Device access

=> Username 12345 and a self-selected password (access PIN) enter numbers only!



These details are to be entered in the construction of the next dial-up connection to the Event-modem!!

=> Select "set the number of rings until call acceptance"

=> Call acceptance in voice mode

- Remote control and data transfer is automatically distinguished (not GSM! For GSM devices see 5.3.)

or

=> Call acceptance in data mode

- for remote configuration of the Event-modems and transparent mode

=> PPP identification

PPP ON + data in the PPP protocol = remote configuration of Event-modems

PPP ON + data not in the PPP protocol = Transparent Mode

PPP OFF + any desired data = remote configuration of Event-modems

Solution when access is required to the control behind the Event-modem and PPP detection is disabled:

- let the phone ring (eg, 2 times at adjusted 3) only briefly!
- replace it again, Event-modem goes in transparent mode
- reconnection recording during the preset time

=> Access to the controller behind the Event-modem

=> "OK" (After OK wait always until the browser displays "Done" in the status bar!)

=> Back to the menu reporting services

6.3.7 Digital inputs / outputs



The settings described below on the inputs and outputs are effectively after pressing the button "initialize IO".

6.3.7.1 Event-modem A100 ECO and G 100 ECO

Event-modem	Event-modem
A 100	G 100
ECO	ECO

Selection by Button clamp
 Input 1 to 4 (clamp 12 - 15):

- Selection whether voltage on, off or is active at every change of level (NO or NC)
- Debounce time 1 s (normal setting), up to 999 s
- Text for High and Low: each max. 16 characters, no umlauts

=> "OK" (After OK wait always until the browser displays "Done" in the status bar!)
 => Return to menu reporting services

Output 1 to 4 (clamp 22 - 25):
 "Tick" = continuous contact
 otherwise switch

- Switching time 1 - 20 s adjustable
- Default setting, whether active when

- no
- one or
- all

objectives were reached in the reporting chain



With "Always", marked messages are not part of the reporting chain and also not included with "one", "no" or "all" targets.

=> "OK" (After OK wait always until the browser displays "Done" in the status bar!)
 => Return to the menu reporting services

Selection as an input or output, max. 8 inputs or 8 outputs (clamps 12 - 15, 22 - 25)

Input

=> Selection whether voltage on, off or is active at every change of level (NO or NC)

=> Debounce time 1 s (normal setting), up to 999 s

=> Text for High and Low:

each max. 16 characters, no umlauts

=> "OK" (After OK wait always until the browser displays "Done" in the status bar!)

=> Return to the menu reporting services

The screenshot shows the 'Digital I/O' configuration page for 'I/O 1'. The terminal is set to '12'. The function is set to 'Eingang' (Input). The active level is set to 'High'. The debounce time is set to '1' second. The text for the high state is 'HIGH' and for the low state is 'LOW'. There is an 'IO Initialisieren' button and navigation buttons 'OK', 'Zurück', and 'Reset'.

Output

"Tick" = continuous contact

otherwise switch

- switching time 1 - 20 s is adjustable

- default setting, whether active when

- no
- one or
- all

objectives were reached in the reporting chain

The screenshot shows the 'Digital I/O' configuration page for 'I/O 1'. The terminal is set to '12'. The function is set to 'Ausgang' (Output). The 'Dauerkontakt' (latching contact) is unchecked. The switching time is set to '1' second. The switching condition is set to 'wenn kein Ziel(e) von DI 1 erreicht wurde(n)'. There is an 'IO Initialisieren' button and navigation buttons 'OK', 'Zurück', and 'Reset'.



With "Always" marked messages are not part of the reporting chain and also not included with "a", "no" or "all" targets.

=> "OK" (After OK wait always until the browser displays "Done" in the status bar!)

=> Return to the menu reporting services

6.3.8 Analog inputs Event-modem A200 and G200

Event-modem	Event-modem
A 200	G 200

6.3.8.1 Selection of input and measuring size



Must match measuring size and jumper setting!

For adjustment and correcting the measured value can be multiplied by a factor and offset is added / subtracted (see example below).

- Enter upper and lower limit (upper limit must be greater than the bottom!)
- Select when is active
- Text for upper and lower limit can be selected as desired, each max. 16 characters

=> "OK" (After OK wait always until the browser displays "Done" in the status bar!)

=> Return to the menu reporting services

When reaching the achievement of set conditions, the messages are contained, in the "Messages" menu must be recorded all the necessary information via text message and objective.

Variable # # VAL - text for upper or lower limit,

AI1 or AI2 # - analogous number of values of the analog input

6.3.8.2 Example for calculation of factor and offset:

2 points From of a measured curve, offset and factor can be determined. With the test function determine 2 values at analog input, for example, at 0 ° C 2.0 V at 25 ° C 3.5 V is measured.

F = factor;

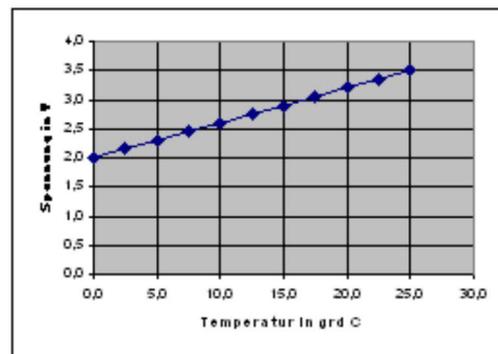
M = Measured value (voltage) at temperature T

O = Offset

$$F = (T1-T2) / (M1-M2) = (25 \text{ °C} - 0 \text{ °C}) / (3,5 \text{ V} - 2,0 \text{ V})$$

$$F = 16,66$$

$$O = - M2 * F = - 2,0 * 16.66 = - 33.33$$



6.3.9 Messages

Here the content and the target is set (max. 160 characters)of the messages to be deposited. The report targets are selected in the order listed (and thus form a message chain) until the first number reached this message chain acknowledged. After successfully sent the message to a report target, only the with "Always" marked receiver (therefore, not part the the reporting chain are) get the message.

Example

Technician 1	not answering the phone		
Technician 2	adopts conversation and acknowledged	Reporting successfully	chain
Technician 3	is not longer called		

fax Entry "I" for "always" => => receives fax message

- for device versions ECO max. 4 reports
- for the remaining devices 42 different messages possible

=> Selection of the input

=> Set message text; following text modules are usable in the message text:

#HEAD# - in the "header" listed informations appear as header, up to 80 characters

#DATE# - generates date

#TIME# - generates time

#VAL# - in the menu "Digital I / O" or "Analog In" entered text for High and Low respectively text for upper / lower limit (state at message triggering is sent)

#DIX# - current state of the input number X (eg query of all inputs is their current state in a message), enter 1-8 instead of X

#AI1# or #AI2# - analogous number of values of the analog input

(Example for message entry: limit exceeded, voltage VAL # #, # # V AI1

is in the transmitted message: limit exceeded, voltage is too high, 10.3 V)

#VAR# - placeholders for variable text at messages via serial interface COM 11

#VOICEXX# - reporting text in the form of a voice file is announced



Note spelling with uppercase letters!

=> Enter telephone number respectively, e-mail address and desired service.

=> Selection according to shift schedule, who has to be informed when, also all.

Q = with acknowledgment



Entry "tick" always possible, but request for acknowledgment is carried, only those selected under reporting services useful applications.

(eg "tick" in fax does not trigger acknowledgment)

I = „Always sent“,

i.e. is sent, regardless of whether a message was not successfully send to other targets, such as fax to a central office.



Set reports with "I" to the end of the reporting chain!!

=> "OK" (After OK always wait until the browser in the status bar "Done" display!)

=> Back to Menu reporting services

Eingang:

Text:

Meldung	Ziel	Dienst	Q	I	Wochentag [alle <input checked="" type="checkbox"/>]	von	bis
1	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
2	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
3	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
4	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
5	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
6	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
7	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
8	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59

OK Zurück Reset

6.3.9.1 Voice messages

Event-
modem A 200
Event-
modem G 200

The announcement begins with "(station number)." Insert reporting text in the form # VOICEXX # into the text field and analog values will be announced (eg # # A11). Insert for XX the numbers 01 to 42. After the reporting text the Event-modem requires the acknowledgment.

Existing files

<u>spoken text</u>	<u>entry in the text field</u>
Digital input 1	#VOICE01#
Digital input 2	#VOICE02#
Digital input 3	#VOICE03#
Digital input 4	#VOICE04#
Digital input 5	#VOICE05#
Digital input 6	#VOICE06#
Digital input 7	#VOICE07#
Digital input 8	#VOICE08#

Voice messages can be generated by the user himself with the help of programs like Logox (<http://www.logox.de/cgi-bin/speechform.cgi>) <http://www.research.att.com/projects/tts/demo.html> or Lesefix SE. Detailed guide for own Speak into the microphone see on "[voice file - Event-modem](#)". There you can find instructions on how to convert the language files in IMA ADPCM format and transfer into the Event-modem.



Without entry of a message text (voice file) do not work even VOICE!

Enter the other entries as Service "X-CONN" as described above.

For selection under 6.2.7.2. digital outputs / inputs, it is necessary to select for Event-modem 1 level change on the input.

The (called) Event-Modem 2 is wired to the output with continuous contact. With GSM devices, the SIM card is to be designed for data transmission.

Both Event-modem devices must have the same username and password (menu devices access) because the calling Event-modem dials in with his access data into the other device.



Input on the Event-modem 1 and output on Event-modem 2 in of this circuit variant permanently assigned, ie Input 1 - output 1, etc.

Eingang

Text

Meldung	Ziel	Dienst	Q	I	Wochentag	von	bis
1	<input type="text"/>	X-CONN	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
2	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
3	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
4	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
5	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
6	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
7	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
8	<input type="text"/>	D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59

OK Zurück Reset

6.3.10 header text

Set header of the message, up to 80 characters, no text blocks for example # DATE #

Kopftext

OK Zurück Reset

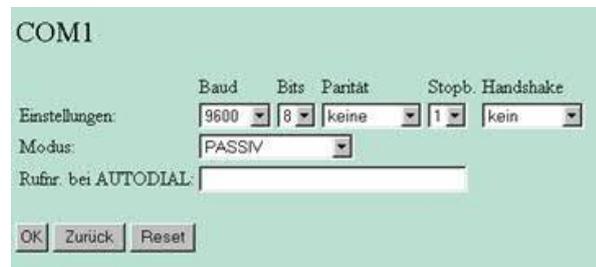
=> "OK" (After OK wait always until the browser displays "Done" in the status bar!)
 => Return to the menu reporting services

6.3.11 Setting the serial interface

Event- Event-
 modem modem
 A 200 G 200

Mode

Here, the behavior of the serial port is set, the current settings are valid for all adjustable modes:



- PASSIVE
= Default setting, Event-modem does not respond to DTR line
- TRANSPARENT
= When DTR line is active, COM 1 is opened => DSR line will be active => control can access via the COM 1 on the internal modem.
- TUP
Mode in which the connected controller with TUP protocol can send messages
- AUTODIAL
When DTR line is active => registered phone number is dialed (outside line access and electoral procedure are taken from the general settings)
=> Connection to the selected modem is established => COM 1 opens
=> DSR line will be active => Control can be accessed to the selected modem and the following facilities via the Event-modem

The connection will transparently switched through to a calling modem with the selected settings, depending on the settings in the device access.

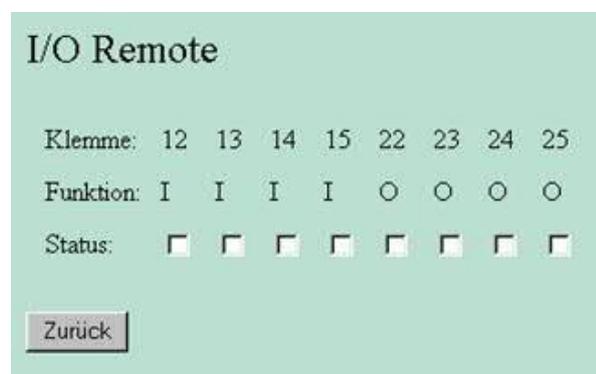
=> "OK" (After OK wait always until the browser displays "Done" in the status bar!)
 => Return to the menu reporting services

6.3.12 Remote control

Remote switching of the outputs
 "Tick" = On

Remote Inquiry of inputs:
 Updating the status display by clicking on one of the inputs

=> Return to the main menu



6.3.13 Setting the clock

"Tick" at "clock"

The clock will be set automatically (SNTP Simple Network Time Protocol) on every connection to the Internet.

The settings made here refer to Greenwich Mean Time (UK zero longitude).

A list of usable server is located under ["Other"](#).

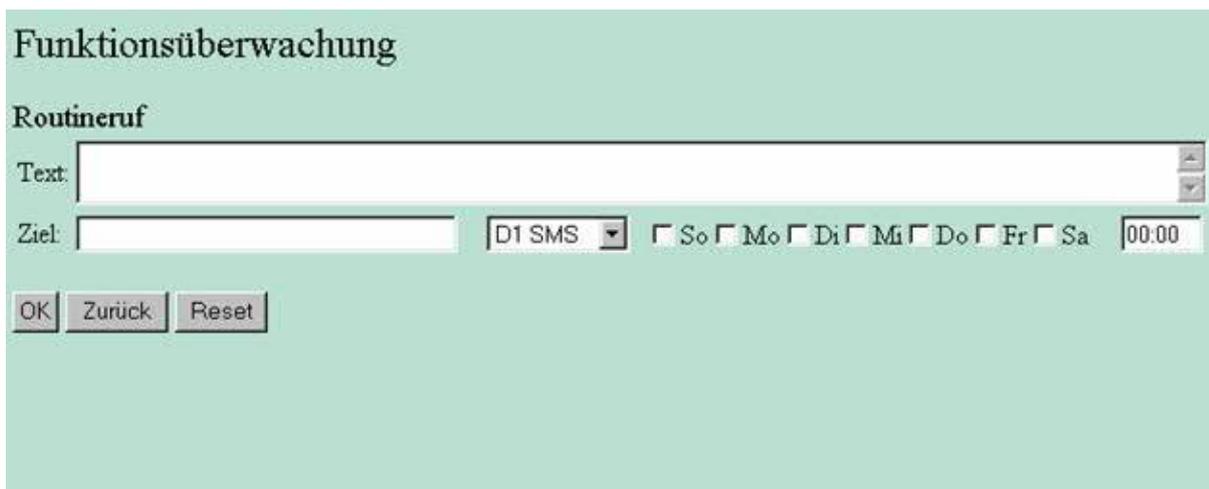


=> "OK" (After OK wait always until the browser displays "Done" in the status bar!)

=> Return to the menu reporting services

6.3.14 Function monitoring

For the purpose of regular control of function (eg weekly) incoming call at a specified time.



=> "OK" (After OK wait always until the browser displays "Done" in the status bar!)

=> Back to the menu reporting services

6.3.15 Log book

Read logbook

Display the for each event into a file entered data.

The last 60 events (messages) are stored with a time stamp and status.

```
<?xml version="1.0" ?>
- <Data >
- <L>
<T>17.2 2003 17:25 DI 1</T>
<M>Z01 0100 0 Q 0400 1</M>
</L>
</Data >
```

17.2 2003 = Data

17:25 = Time

DI 1 = Input or output number (for example input 1)

Z01 = Target number
0100 = Event code
0 = Redials
Q = Acknowledgement
0400 = Event code
1 = Redials for acknowledgment

The event code is made up of error group (see [error codes](#)) and code. Code 00 means no error.

Delete logbook: Delete content as needed

6.3.16 Exit the programming mode



Only for direct connection to the Event-modem

Setting the DIP Switch S1 0 0 0 0 (OFF-OFF-OFF-OFF) to normal operation.
Green LED 9 (next to a telephone line) goes on continuous light.

6.4 Save and load program

6.4.1 Program creation Event-modem

- to program an Event-modem locally as required
- establish dial-up connection to the Event-modem respectively still use existing connection.
- start `cfg_save.exe`
- select Type (Event-modem 100 Eco or Event-modem 200)
- select transfer under "Download"
- after completion of transfer select "Save"
- Select a directory for storing programs and save program.
- finish dialup connection

Program is now available for more devices.

Note: Download Files is a list of Event-modem files.

Del Delete files, such as constant error messages "File does not exist"

Ins Add new files

Save save the modified list

RESET establishes the original state is restored

6.4.2 Load program into Event-modem

- establish dial-up connection to the Event-modem
- Click on "Open" in the menu of `cfg_save.exe`, and select saved program file
- Select "Upload" under transfer
- Finish dialup connection at the end of the file transfer
- Finish the program `cfg_save.exe`

7 Technical data

Supply voltage: 24V DC +/- 20%
Power consumption: 4 watt
Display: Web-Browser
Handling/Configuration: 4 DIP-Switch for operating states
to the PLC:
 digital in-/outputs
 analogue in-/outputs
Interfaces: **to the PD/PC:**
 RS232
 RS485
others:
 -
Integrated modem: analogue modem V92 / GSM-modem
Operating temperature: -20 - +60°C
Case: plastic case for DIN-rail mounting
Dimensions: 110 x 125 x 60 mm
Scope of delivery:
 Eventmodem
 Cable 9pin 1to1
Attention: telephone-cable / GSM-antenna not included in scope of delivery

7.1 Clamp overview

bar	clamp	signal	jumper	remark
X1	11	+12/24 V DC		signal voltage
	12	0-30 V DC signal line		digital I/O 1
	13	0-30 V DC signal line		digital I/O 2
	14	0-30 V DC signal line		digital I/O 3
	15	0-30 V DC signal line		digital I/O 4
	16	GND (minus)		
X2	21	+12/24V DC		signal voltage
	22	0-30 V DC signal line		digital I/O 5
	23	0-30 V DC signal line		digital I/O 6
	24	0-30 V DC signal line		digital I/O 7
	25	0-30 V DC signal line		digital I/O 8
	26	GND (minus)		
X3	31	B		RS 485 module bus
	32	A		RS 485 module bus
X4	41	0-20 mA (plus)	J7-left	analog in 1 (current measuring)
	42	0-20 mA (minus)	J7-left	analog in 1 (current measuring)
	41	0-10 V (plus)	J7-remote	analog in 1 (current measuring)
	42	0-10 V (minus)	J7-remote	analog in 1 (voltage measuring)
	43	0-20 mA (plus)	J8-left	analog in 2 (current measuring)
	44	0-20 mA (minus)	J8-left	analog in 2 (current measuring)
	43	0-10 V (plus)	J8-remote	analog in 2 (voltage measuring)
	44	0-10 V (minus)	J8-remote	analog in 2 (voltage measuring)
X5	51	0-10 V, max. 10 mA (plus)		analog out 1

	52	0-10 V, max. 10 mA (minus)	analog out 1
	53	0-10 V, max. 10 mA (plus)	analog out 2
	54	0-10 V, max. 10 mA (minus)	analog out 2
X6	61	+12/24 V DC	operating voltage
	62	GND (minus)	operating voltage
X7		antenna connection	Only at GSM execution
X8		phone connection	

		COM 1 (X9)		COM D (X10)	
RS 232	1	DCD	Data Carrier Detect	1	
	2	RxD	Received Data	2	RxD Received Data
	3	TxD	Transmitted Data	3	TxD Transmitted Data
	4	DTR	Data Terminal Ready	4	
	5	GND	Signal Ground	5	GND Signal Ground
	6	DSR	Data Set Ready	6	
	7	RTS	Request to Send	7	
	8	CTS	Clear to Send	8	
	9	RI	Ring indicator	9	

Change the default setting by moving the J1 to 6 to a slot in the direction of center of the device, after opening the device. .

COM D and COM 1 are thus exchanged and adjusted as COM 1 RS 485.

		COM D (X9)		COM 1 (X10)	
RS 485	1			1	
	2	RxD	Received Data	2	
	3	TxD	Transmitted Data	3	A BUS line A
	4			4	
	5	GND	Signal Ground	5	GND Signal Ground
	6			6	+5V +5 V Supply voltage
	7			7	
	8			8	B BUS line B
	9			9	

8 Expansion Module X332

Attention!

Expansion Module X332 only works in conjunction with Event-modem A200 or G200 from program version 38224.

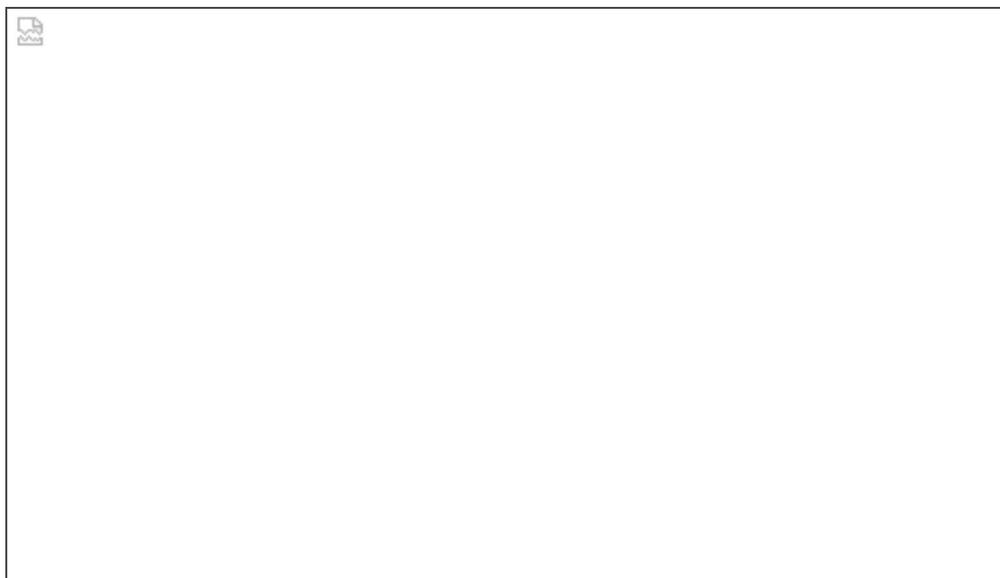
8.1 Construction and dimensions



The device is used to multiplication the inputs of the Event-modems.
The case matches with that of the Event-modems.

It is designed for mounting on 35 mm wide hat rail according to Din EN 50022.

The dimensions are (WxHxD) 110 x 125 x 60 mm.



8.2 Clamp overview

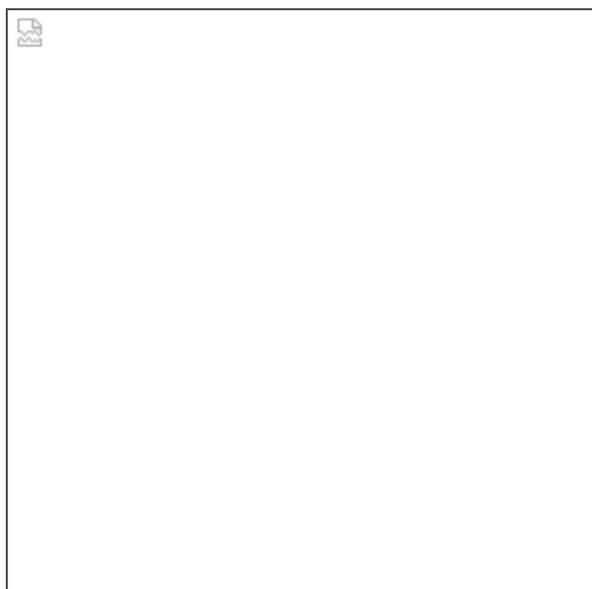
bar	clamp	signal	remark
X1	11		
	12	0-30 V DC signal line	digital in 1
	13	0-30 V DC signal line	digital in 2
	14	0-30 V DC signal line	digital in 3
	15	0-30 V DC signal line	digital in 4
	16	GND (minus)	
X2	21		
	22	0-30 V DC signal line	digital in 5
	23	0-30 V DC signal line	digital in 6
	24	0-30 V DC signal line	digital in 7
	25	0-30 V DC signal line	digital in 8
	26	GND (minus)	
X3	31		
	32	0-30 V DC signal line	digital in 9
	33	0-30 V DC signal line	digital in 10

	34	0-30 V DC signal line	digital in 11
	35	0-30 V DC signal line	digital in 12
	36	GND (minus)	
X4	41		
	42	0-30 V DC signal line	digital in 13
	43	0-30 V DC signal line	digital in 14
	44	0-30 V DC signal line	digital in 15
	45	0-30 V DC signal line	digital in 16
	46	GND (minus)	
X5	51		
	52	0-30 V DC signal line	digital in 17
	53	0-30 V DC signal line	digital in 18
	54	0-30 V DC signal line	digital in 19
	55	0-30 V DC signal line	digital in 20
	56	GND (minus)	
X6	61		
	62	0-30 V DC signal line	digital in 21
	63	0-30 V DC signal line	digital in 22
	64	0-30 V DC signal line	digital in 23
	65	0-30 V DC signal line	digital in 24
	66	GND (minus)	
X7	71		
	72	0-30 V DC signal line	digital in 25
	73	0-30 V DC signal line	digital in 26
	74	0-30 V DC signal line	digital in 27
	75	0-30 V DC signal line	digital in 28
	76	GND (minus)	
X8	81		
	82	0-30 V DC signal line	digital in 29
	83	0-30 V DC signal line	digital in 30
	84	0-30 V DC signal line	digital in 31
	85	0-30 V DC signal line	digital in 32
	86	GND (minus)	
X9	91	+12/24 V DC	operating voltage

	92	GND (minus)	operating voltage
X10	101	B	connect with X3/31 on the basic device (RS 485 modul bus)
	102	A	connect with X3/32 on the basic device (RS 485 modul bus)
	103	GND (minus)	Modulbus

8.3 Digital inputs

After connecting basic device and expansion module (X10/101 and 102 - see above) and selecting "Digital in (expansion module)" in the main menu of the Event-modems, the inputs of the expansion module is initialized.



Input selection

max. 32 inputs (clamps 12 - 15, 22 - 25, 32 - 35, 42-45, 52 - 55, 62 - 65, 72 - 75, 82 -85)

input

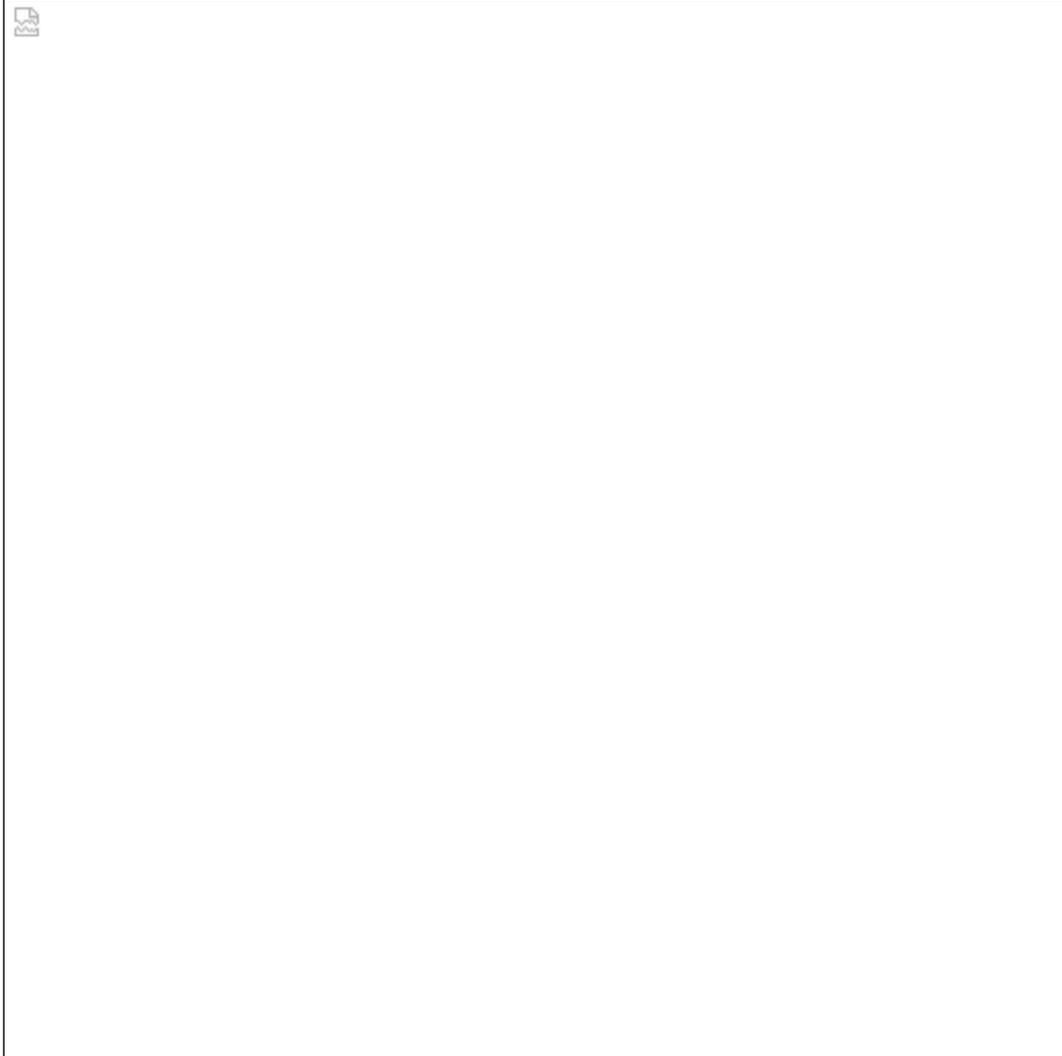
- Selection whether active at high or low voltage level (NO or NC)
- Debounce time 1 s (regular), adjustable up to 25 s
- Enter text for High and Low: each max. 16 characters, no umlauts

=> "OK" (After OK always wait until the browser displays "Done" in the status bar!)

=> Return to the main menu

Reporting text

By clicking on the "Messages" in the main menu of the Event-modems, the inputs of the expansion module can be assigned message texts. The associated inputs are denoted by 1 to EXDI EXDI 32. They share with the serial input SI 1 to SI 32 the space for the message text.



=> "OK" (After OK always wait until the browser displays "Done" in the status bar!)
=> Return to the main menu

8.4 Reset all inputs

In normal operation, the triggered inputs are be reset by the Event-modem. Should the reset not done or taking too long, the original state with the help of S1 to be manually restored follows:

- operating voltage OFF
- S1/2 to ON
- turn ON operating voltage
- after resetting operating voltage OFF again
- S1/2 OFF

Original state is established



S1 / 1 (lower switch) always remains in the OFF position and the jumper (next to X10) always in delivery state (right).

8.5 Technial data

Supply voltage:	24V DC +/- 20%
Power consumption:	1 watt
Messages:	a independent message per input each with 8-times reporting chain
	<u>to the Event-Modem:</u>
	RS485
Interfaces:	<u>inputs:</u> 32 digital inputs, individually configurable as opener or closer
	<u>others:</u> -
Operating temperature:	-20 - +60°C
Case:	plastic case for DIN-rail mounting
Dimensions:	110 x 125 x 60 mm
<u>Scope of delivery:</u>	Eventmodem extensionbox

9 Troubleshooting

9.1 Error codes

The error codes and event codes are saved in a file, see the chapter "[Logbook](#)" and display at the Com D.

Output of the error codes in the diagnostic interface in the form:

ERROR: XXYY

XX = error group (hexadecimal)

YY = error number(hexadecimal) 00 = no error

error group 00		modem error	
error number.	error description	possible cause	number of the TUP-protocol error
01			1
02			2
03	no connection to the remote site	defective phone line, public line access is not OK	3
04	no dialing tone	no office or defective telephone line	4
05	occupied	outside line access	5
06			6
07			7
08			8
09	SIM PIN	wrong SIM PIN (only at GSM)	9

0A	SIM PUC	SIM-Karte locked, PUC required	10
0B			11
0C			12
0D			13
0E	modem reports error	error at the telephone connection	14
0F	transmission medium is not detected	hardware error	15
10	time exceed		16

error group 01		fax protocol	
error number	error description	possible cause	number of the TUP-protocol error
01-0F	various fax protocol errors		17 to 31

error group02		GSM-SMS protocol	
error number	error description	possible cause	number of the TUP-protocol error
01-03	various GSM-SMS protocol error	possible problems in the GSM network	32 to 34

error group 03		UCP-SMS protocol	
error number	error description	possible cause	number of the TUP-protocol error
01			35
02			36
03			37
04	various UCP-SMS protocol error	error in the SMSC	38
05			39
07			40
24			44
25			45

error group 04**error in the voice message**

error number	error description	possible cause	number of the TUP-protocol error
01	acknowledgement pin entered incorrect		47
02	time exceed at acknowledging		48
03			49
04			50

error group 05**email error**

error number	error description	possible cause	number of the TUP-protocol error
01	no connection to SMTP server	z. B. wrong IP adress	51
02	no SMTP IP adress	see on email settings	52
03			53
04			54
05			55
06	various SMTP-protocol error		56
07			57
08			58
09			59
0A			60
0B			61
81	no connection to POP server	e.g. wrong IP adress	63
82			64
83	POP protocol error		65
84			66
85	no POP IP adress	see on email settings	77
86			78
FF	time exceed		79

error group 06		TAP-SMS protocol	
error number	error description	possible cause	number of the TUP-protocol error
01-05	various TAP-SMS protocol errors		80 to 84

error group 07		error in data of the message	
error number	error description	possible cause	number of the TUP-protocol error
01	error in dialing parameters		85
03	no station number		86
04	Name of the reporting service not recognized		87
05	reporting service not recognized	see on settings on the Event-modem	88
06	no SMSC number		89
07			90
08	no station number		91
09	no message text entered		92
0A	not entered a SIM PIN (GSM only)		93
0B	setting error	message is not configured for this time / day.	94

error group 09		Error when transferring a switching state to a second Event-modem	
error number	error description	possible cause	number of the TUP-protocol error
01	PPP error	access data do not match	95
02	IP error	transmission error	96
03	no OK from remote site	see on state transmission (eg input 1 not assigned to output 1)	97
04	time exceed		98

10 Miscellaneous

10.1 Additional functions

10.1.1 Reporting Service HTTP Message

Event-
modem
A200 Event-
modem
G200

Usage for messages to a server in the internet. On the server incoming message in the internet is processed by the CGI script.

Open the "reporting services" menu, select as service "HTTPmsg"
Under "Additional settings" is available the adjacent menu:

- Server adress
- Enter the server host name, e.g. http-msg-server.de /

=> OK

=> Return to the previous menu



In the menu reportings

- enter as the reporting target a cgi script (Common Gateway Interface), for example cgi-bin/http-msg.cgi

The selection of the input and the other entries as with any other message.

=> OK

(After OK always wait until the browser displays "Done" in the status bar!)

=> Return to the main menu



10.1.2 Data logging

Event-
modem
A200 Event-
modem
G200

10.1.2.1 As time controlled data logging

- Specify logging interval and start time.
- Login process is always running to 24.00 clock, i.e. at beginning at 2.00 clock are generated data sets for 22 hours, thereafter break until 2:00 clock.
- form a mean value of the analog data is possible.

10.1.2.2 As event controlled data logging

"Tick" indication of inputs whose state is relevant for data logging

Determine for automatic shipping of log files:

- Maximum number of data sets. File is sent when reaching the data set number.
- day, time File shipped at the indicated time in any case.
- Selection of e-mail or HTTP message and entry the respective address.

Prerequisite are further the general e-mail settings respectively the http - data in the menu reporting services and under "Additional settings".

Maximum of 12,000 data sets possible, number can be reduced with "File formatting".



It will lose all existing records.

With information general data, e.g. plant name.

For inputs DI1 to DI8 AI1 and AI2 registered name and unit in the log file is transferred.

10.1.2.3 Retrieve logfile as an email

Event-modem A200 Event-modem G200

Serves e.g. to immediately retrieve the log files as e-mail when the corresponding input gets a signal.

Prerequisites are the settings on service "LogMAIL" (menu reporting services). The settings apply also for all other e-mail messages!

Select in the menu "Reportings":

- As service "LogMAIL"
- Enter e-mail address as reporting target

The selection of the input and the other entries as with any other report.

Meldung	Ziel	Dienst	Q	I	Wochentag	von	bis
1		LogMAIL	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
2		D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
3		D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
4		D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
5		D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
6		D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
7		D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59
8		D1 SMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> So <input checked="" type="checkbox"/> Mo <input checked="" type="checkbox"/> Di <input checked="" type="checkbox"/> Mi <input checked="" type="checkbox"/> Do <input checked="" type="checkbox"/> Fr <input checked="" type="checkbox"/> Sa	00:00	23:59

OK Zurück Reset

=> OK (After OK always wait until the browser displays "Done" in the status bar!)

=> Return to the main menu

10.1.2.4 Retrieve logfile as HTTP message

Event- Event-
modem modem
A200 G200

Serves e.g. for immediate retrieval of the log file when the corresponding input gets signal

=> for further processing of the log files from a script.

Prerequisite are the information in the menu reporting services. Select here "LogHTTP" and further settings: HTTP message.

In the menu reportings

- Select as service "LogHTTP"
- Enter a cgi-script as reporting target, for example cgi-bin/http-msg.cgi

The selection of the input and the other entries as with any other report.

Eingang

Text:

Meldung	Ziel	Dienst	Q	I	Wochentag	von	bis
1	<input type="text"/>	<input type="text" value="LogHTTP"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> So <input type="checkbox"/> Mo <input type="checkbox"/> Di <input type="checkbox"/> Mi <input type="checkbox"/> Do <input type="checkbox"/> Fr <input type="checkbox"/> Sa	<input type="text" value="00:00"/>	<input type="text" value="23:59"/>
2	<input type="text"/>	<input type="text" value="D1 SMS"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> So <input type="checkbox"/> Mo <input type="checkbox"/> Di <input type="checkbox"/> Mi <input type="checkbox"/> Do <input type="checkbox"/> Fr <input type="checkbox"/> Sa	<input type="text" value="00:00"/>	<input type="text" value="23:59"/>
3	<input type="text"/>	<input type="text" value="D1 SMS"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> So <input type="checkbox"/> Mo <input type="checkbox"/> Di <input type="checkbox"/> Mi <input type="checkbox"/> Do <input type="checkbox"/> Fr <input type="checkbox"/> Sa	<input type="text" value="00:00"/>	<input type="text" value="23:59"/>
4	<input type="text"/>	<input type="text" value="D1 SMS"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> So <input type="checkbox"/> Mo <input type="checkbox"/> Di <input type="checkbox"/> Mi <input type="checkbox"/> Do <input type="checkbox"/> Fr <input type="checkbox"/> Sa	<input type="text" value="00:00"/>	<input type="text" value="23:59"/>
5	<input type="text"/>	<input type="text" value="D1 SMS"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> So <input type="checkbox"/> Mo <input type="checkbox"/> Di <input type="checkbox"/> Mi <input type="checkbox"/> Do <input type="checkbox"/> Fr <input type="checkbox"/> Sa	<input type="text" value="00:00"/>	<input type="text" value="23:59"/>
6	<input type="text"/>	<input type="text" value="D1 SMS"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> So <input type="checkbox"/> Mo <input type="checkbox"/> Di <input type="checkbox"/> Mi <input type="checkbox"/> Do <input type="checkbox"/> Fr <input type="checkbox"/> Sa	<input type="text" value="00:00"/>	<input type="text" value="23:59"/>
7	<input type="text"/>	<input type="text" value="D1 SMS"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> So <input type="checkbox"/> Mo <input type="checkbox"/> Di <input type="checkbox"/> Mi <input type="checkbox"/> Do <input type="checkbox"/> Fr <input type="checkbox"/> Sa	<input type="text" value="00:00"/>	<input type="text" value="23:59"/>
8	<input type="text"/>	<input type="text" value="D1 SMS"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> So <input type="checkbox"/> Mo <input type="checkbox"/> Di <input type="checkbox"/> Mi <input type="checkbox"/> Do <input type="checkbox"/> Fr <input type="checkbox"/> Sa	<input type="text" value="00:00"/>	<input type="text" value="23:59"/>

=> OK (After OK always wait until the browser displays "Done" in the status bar!)
=> Return to the main menu

10.1.3 Set clock via HTTP script

Event-
modem
A200 Event-
modem
G200

Enter the address http://215.0.0.1/http_get.htm in the browser and it opens the next standing page.

- Server adress
- Enter host name of the server
e.g. http-msg-server.de/

Setting "Tick" at the clock

The script `cgi-bin/time.pl` (included on CD with the addition program) must to be installed on the specified server and sets the clock in the Event-modem.

=> OK
=> Return to the main menu

HTTP Client

Server

IP-Adresse:

Hostname:

Datum / Zeit

Uhr stellen:

Script:

10.1.4 Dial up connection via GPRS

Event-
modem
G200

Set connection type
GPRS

Provider D2:
Entries as pictured

=> OK
=> Return to main
menu

The screenshot shows the 'DFÜ-Einstellungen' (DFÜ Settings) screen. At the top, 'Verbindungsart' (Connection type) is set to 'GPRS'. Below this, 'DFÜ-Verbindung 1' (DFÜ Connection 1) is configured with the following fields: 'Provider' (D2-GPRS), 'Rufnummer' (Phone number: *99***1#), 'Benutzername' (Username: d2), 'Kennwort' (Password: d2), 'GPRS-Init' (empty), and 'GPRS-PDP' (1, "IP", "volume.d2gprs.de").

Provider D1	provider	D1-GPRS
	phone number	*99***1#
	user name	d1
	password	d1
	GPRS-PDP (packet data protocol)	1, "IP", "internet.t-d1.de"
Provider E-Plus Germany	provider	E-plus-GPRS
	phone number	*99***1#
	user name	eplus
	password	eplus
	GPRS-PDP (packet data protocol)	1, "IP", "internet.eplus.de"
Provider O2	provider	O2-GPRS
	phone number	*99***1#
	user name	O2
	password	O2
	GPRS-PDP (packet data protocol)	1, "IP", "internet"

10.2 Creating a Voice File for speech output A200 / G200

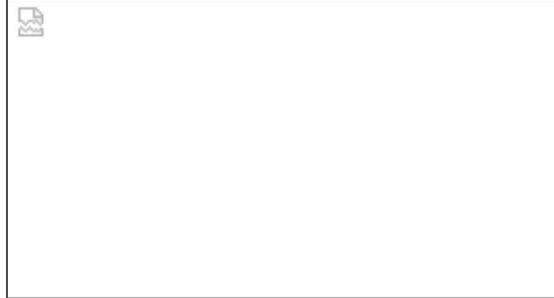
10.2.1 System Requirements

Sound card, microphone, audio recorder

10.2.2 Creating your own voice messages

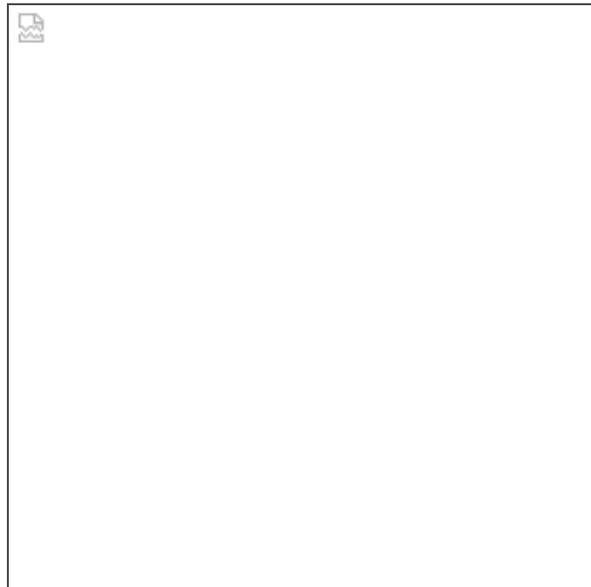
Call Audio recorder:

START => programs => accessories =>
Entertainment media => Audio recorder



- Start recording with the button on the right (red)
(up to 8 sec possible, because of limited file size)
- Record your message while the indicator runs.
- Then press the STOP button (square).

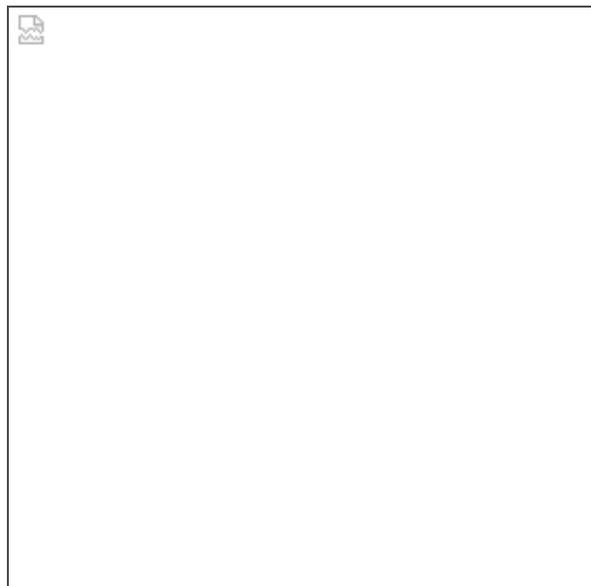
Now save (file type *.wav),
for example under C:/TEMP



Click the "Change" button and set:

Format PCM

Attributes: 8000 Hz, 16 bit, mono



10.2.3 Conversion into IMA ADPCM

This requires the program encoder.exe (on the CD).



For simplified operation call zugabe/encoder/wav2adp.exe from the CD and the file name and path register (destination file: *.adp).

=> OK
=> Exit

The converted file is generated. Attention: max. size 32 kB for Event-modem possible!

10.2.4 Transfer of the file to the Event-modem

Stuck the programming cable between the PC (RS 232 interface) and Event-modem (X9), set DIP switch S1 to ON OFF OFF OFF and create tension in Event-modem.

Install "Total Commander" (on CD, adding path; tcmd551.exe)!



Important! It must already be created an icon "Event-modem" under network / dial up connection, see Walkthrough: Creating a dial up connection.

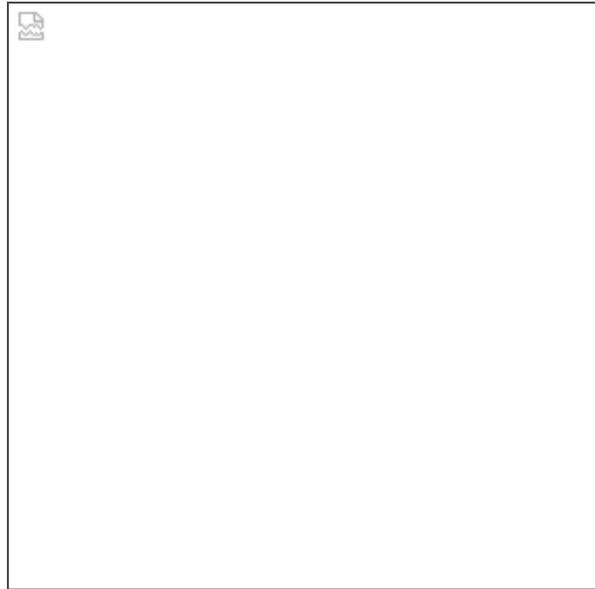
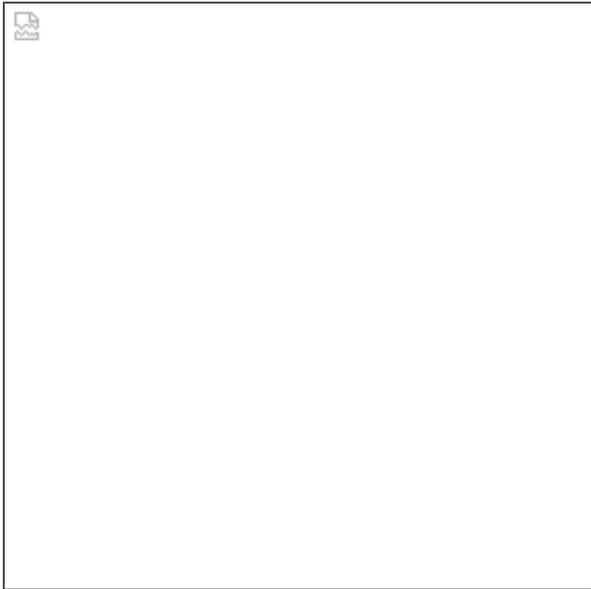
Call the dial up connection by clicking and note during choose username / password.



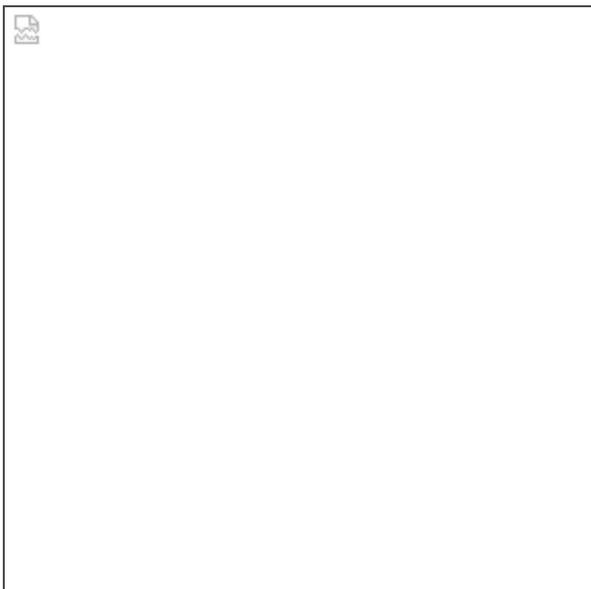
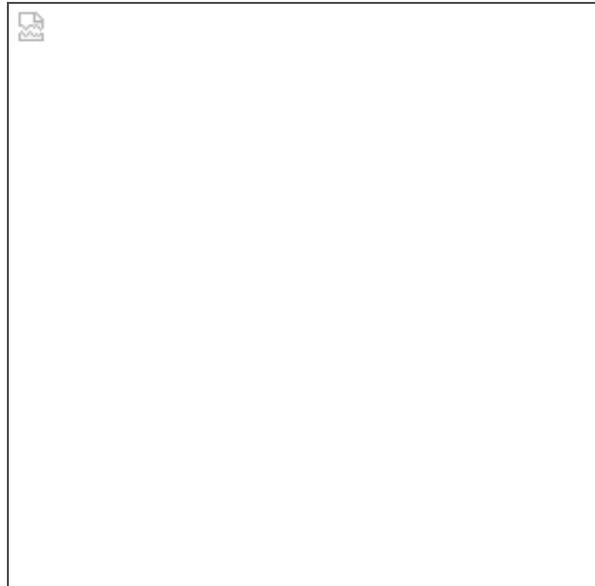
After connecting to Event-modem, call the Total Commander.

Start (as indicated by 1,2 or 3)

Press the Icon (top center) "FTP connection"



Then select "New Connection".



Important entrys

Title: any

Server name: 215.0.0.1

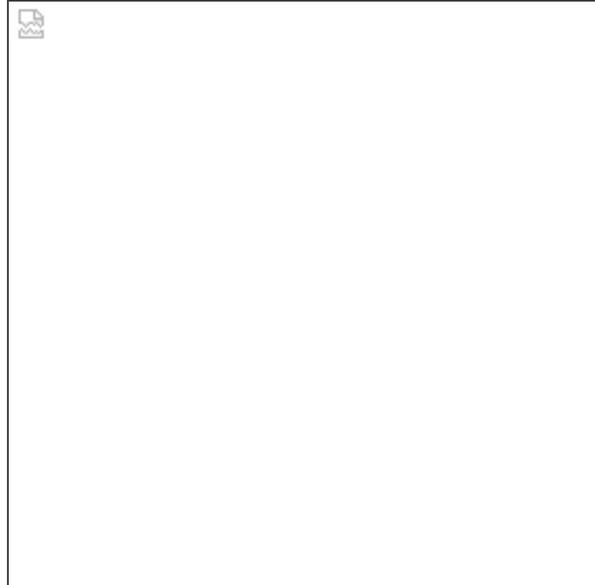
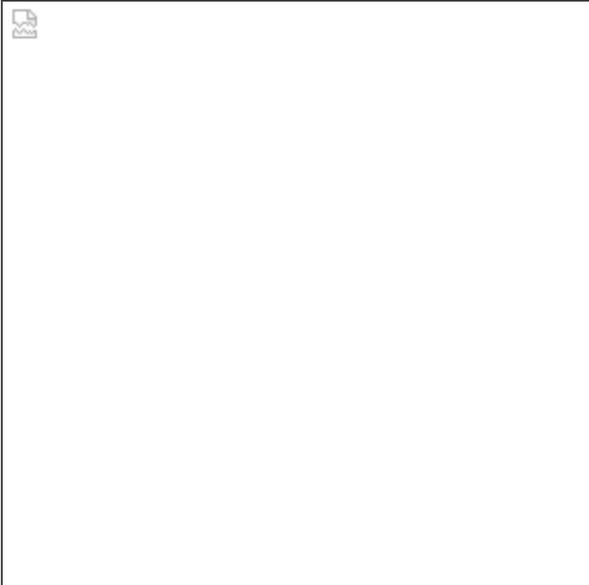
Username: oem devices at 12345

Password: 12345

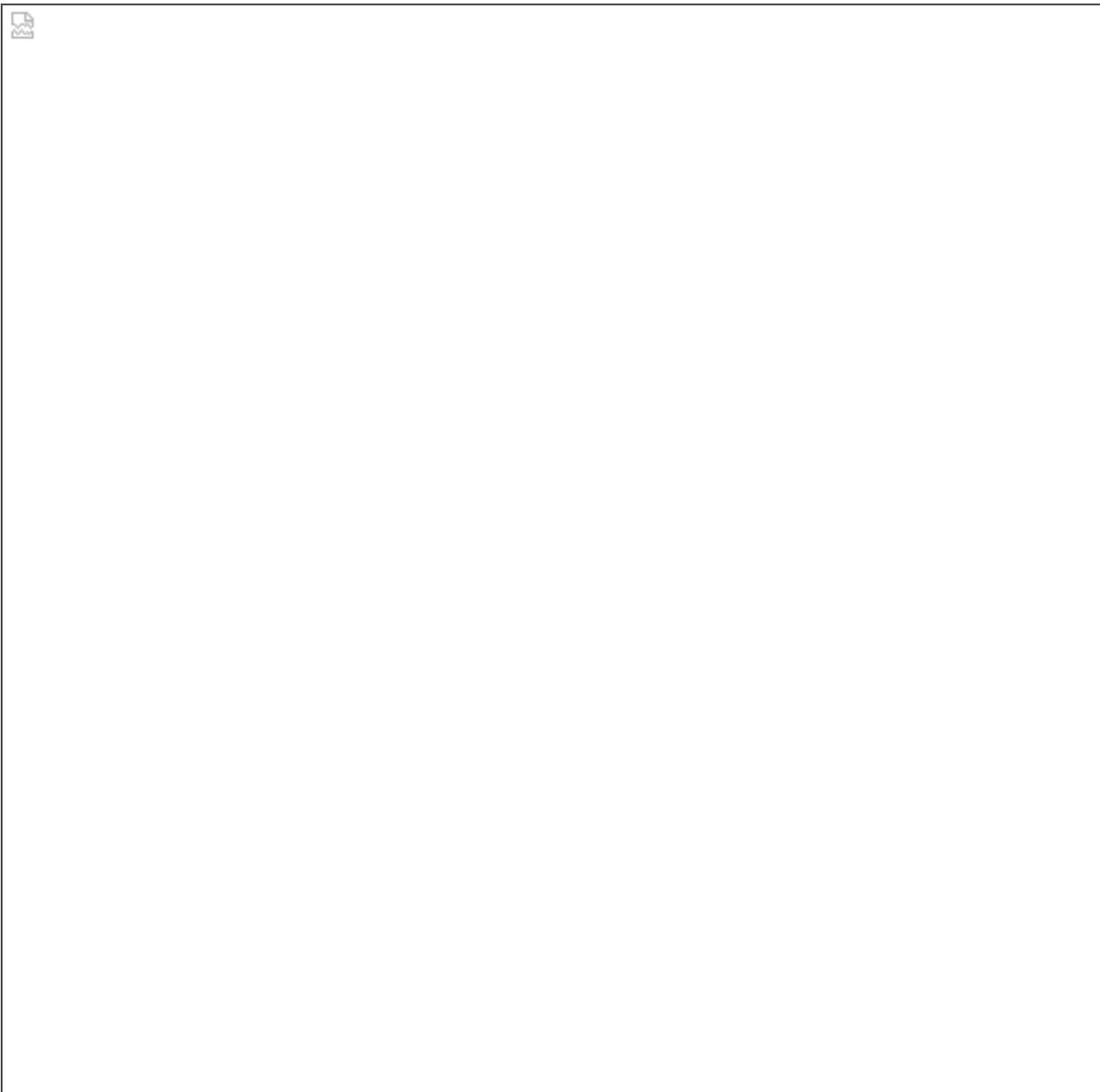
After confirming with OK:

Mark line and select "Connect".

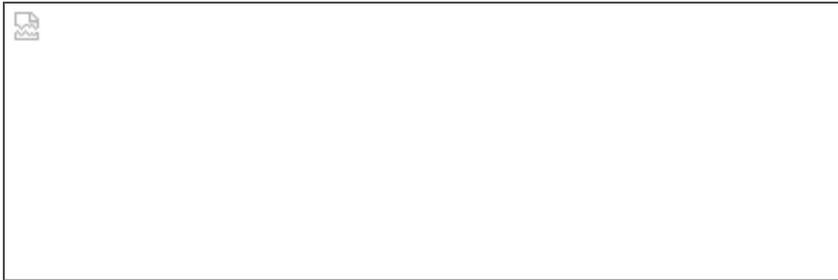
Open the Directory "d" on the ftp site. It appears:



Now mark "voice09" on drive C: path \ file, and copy into the Event-modem (F5).



All processes leave write / edit until they are done!



Finish Total Commander.

Finally disconnect dial up connection (see below) or complete to parameterize Event-modem with Internet Explorer 215.0.0.1/index.htm!



10.3 Choice matrix reporting systems

	Event modem A100 ECO Order number 15300	Event modem A200 Order number 15301	Event modem G100 ECO Order number 15302	Event modem G200 Order number 15303	Event modem A242 Order number 15304	Event modem G242 Order number 15305
inputs / outputs / interfaces						
4 digital inputs	X		X			
4 digital outputs	X		X			
32 digital inputs					X	X
8 digital inputs/ outputs		X		X	X	X
2 analog inputs		X		X	X	X
2 analog outputs		X		X	X	X

RS232 complete	X	X	X	X	X	X
RS 485	X	X	X	X	X	X
Diagnostic interface	X	X	X	X	X	X
Extension bus		X		X	X	X
Transmission network						
analog network	X	X			X	
GSM			X	X		X
message type						
SMS	X	X	X	X	X	X
Fax	X	X	X	X	X	X
Email	X	X	X	X	X	X
paggers message	X	X	X	X	X	X
Voice		X		X	X	X
DTMF tone sequence	X		X			
functions						
reporting chain	X	X	X	X	X	X
Shift schedule management	X	X	X	X	X	X
docket	X	X	X	X	X	X
Status confirmation	X	X	X	X	X	X
remote configuration	X	X	X	X	X	X
remote inquiry / Remote control	X	X	X	X	X	X
Remote switching via tone dialing	X	X	X	X	X	X
transparent mode		X		X	X	X

Switching state transmission to the second Event-modem	X	X	X	X
datalogging	X	X	X 1)	X 1)

1) Only on the basic module A/G200

10.4 Internet access from mobile phones (State: February 2004)

	T-D1 (T-Mobile)	Vodafone D2	E-Plus	O2 Germany
access number	4122	229000	123100	464638
user name	will be communicated after registration	(free)	eplus	go@mobil.de
password		(free)	eplus	internet

10.5 Listing of some NTP servers for clock setting

name	location	IP adress	place
rustime01.rus	uni-stuttgart.de	129.69.1.153	Computer Center University of Stuttgart, D-70550
sombrero.cs	tu-berlin.de	130.149.144.8	Technical University of Berlin, D-10587 Berlin, FRG
trueno.cs	tu-berlin.de	130.149.17.160	Technical University of Berlin, D-10587 Berlin, FRG
hora.cs	tu-berlin.de	130.149.17.21	Technical University of Berlin, D-10587 Berlin, FRG
ntps1-0.cs	tu-berlin.de	130.149.17.21	Technical University of Berlin, D-10587 Berlin, FRG
ntps1-1.cs	tu-berlin.de	130.149.17.8	Technical University of Berlin, D-10587 Berlin, FRG
mailszrz.zrz	tu-berlin.de	130.149.4.11	Technical University of Berlin, D-10587 Berlin, FRG
server08.zrz	tu-berlin.de	130.149.4.46	Technical University of Berlin, D-10587 Berlin, FRG
times.zrz	tu-berlin.de	130.149.4.18	Technical University of Berlin, D-10587 Berlin, FRG
carina	Uni-Osnabrueck.de	131.173.17.34	University of Osnabrueck, D-49069 Osnabrueck, FRG
ntps1-1.rz	Uni-Osnabrueck.de	131.173.17.7	Uni Osnabrück

ntps1-2	uni-erlangen.de	131.188.1.31	University Erlangen-Nuernberg, D-91058 Erlangen, FRG
ntps1-0	uni-erlangen.de	131.188.1.40	University Erlangen-Nuernberg, D-91058 Erlangen, FRG
ntps1-1	uni-erlangen.de	131.188.1.45	University Erlangen-Nuernberg, D-91058 Erlangen, FRG
atlas.rrze	uni-erlangen.de	131.188.3.38	University Erlangen-Nuernberg, D-91058 Erlangen, FRG
www.rrze	uni-erlangen.de	131.188.3.67	University Erlangen-Nuernberg, D-91058 Erlangen, FRG
ntp0	fau.de	131.188.34.75	University Erlangen-Nuernberg, D-91058 Erlangen, FRG
ntp1	fau.de	131.188.34.45	University Erlangen-Nuernberg, D-91058 Erlangen, FRG
ntp2	fau.de	131.188.34.107	University Erlangen-Nuernberg, D-91058 Erlangen, FRG
faii45.informatik	uni-erlangen.de	131.188.34.45	University Erlangen-Nuernberg, D-91058 Erlangen, FRG
wrx03.rz	uni-wuerzburg.de	132.187.1.3	Uni Würzburg
wrx05.rz	uni-wuerzburg.de	132.187.3.5	Uni Würzburg
hpuxsrv1.hrz	Uni- Oldenburg.DE	134.106.141.2	Uni Oldenburg
hpuxw4.hrz	Uni- Oldenburg.DE	134.106.156.34	Uni Oldenburg
rzfs2.rz	tu- braunschweig.de	134.169.10.20	TU Braunschweig
rzis2.rz	tu- braunschweig.de	134.169.9.108	TU Braunschweig
rztime1.rz	tu- braunschweig.de	134.169.1.138	TU Braunschweig
rztime2.rz	tu- braunschweig.de	134.169.1.103	TU Braunschweig
rztime3.rz	tu- braunschweig.de	134.169.1.139	TU Braunschweig
ha2.hrz	uni-giessen.de	134.176.2.246	Uni Giessen
ns1.hrz	uni-giessen.de	134.176.2.5	Uni Giessen
ventus.rz	uni-konstanz.de	134.34.3.18	Uni Konstanz
kendesi.rz	uni-konstanz.de	134.34.3.27	Uni Konstanz
ntpa2.kph	uni-mainz.de	134.93.132.118	Johannes Gutenberg-University, Institut fuer Kernphysik, Mainz
www1.rrz	Uni-Koeln.DE	134.95.100.203	Uni Köln

physik-gw.rrz	Uni-Koeln.DE	134.95.192.172	Uni Köln
surz17.HRZ	Uni-Marburg.DE	137.248.1.74	Uni Marburg
DNSp	Uni-Marburg.DE	137.248.1.8	Uni Marburg
ns	uni-jena.de	141.35.1.16	Uni Jena
fsuj10.rz	uni-jena.de	141.35.3.138	Uni Jena
susi.rz	uni-jena.de	141.35.4.20	Uni Jena
hrz-ws74.hrz	uni-kassel.de	141.51.26.23	Uni Kassel
hrz-ws15.hrz	uni-kassel.de	141.51.3.79	Uni Kassel
hrz-sun2.hrz	uni-kassel.de	141.51.8.3	Uni Kassel
ntp1.sul	t-online.de	194.25.134.196	Deutsche Telekom AG
ntp1.sda	t-online.de	195.145.119.188	Deutsche Telekom AG
ntp1	ptb.de	194.95.250.35	Physikalisch-Technische Bundesanstalt Braunschweig, G (PTB),
ptbtime1	ptb.de	194.95.250.35	Physikalisch-Technische Bundesanstalt Braunschweig, G (PTB),
ntp2	ptb.de	194.95.250.36	Physikalisch-Technische Bundesanstalt Braunschweig, G (PTB),
ptbtime2	ptb.de	194.95.250.36	Physikalisch-Technische Bundesanstalt Braunschweig, G (PTB),
ts1	univie.ac.at	131.130.1.11	Uni Wien
ts2	univie.ac.at	131.130.1.12	Uni Wien
ntp1-1	belwue.de	129.143.2.23	BelWue
ntp1-2	belwue.de	129.143.2.33	BelWue
ntp2-1	belwue.de	129.143.2.9	BelWue
ntp2-2	belwue.de	129.143.4.4	BelWue
ntp2-3	belwue.de	129.143.2.1	BelWue
ntp1	uni-augsburg.de	137.250.121.1	Uni Augsburg
time6.join	uni-muenster.de	128.176.191.5	Uni Münster
ntp6	space.net		SpaceNet AG
ntp0.hrz	uni-dortmund.de	129.217.131.21	Uni Dortmund
ntp1.hrz	uni-dortmund.de	129.217.131.3	Uni Dortmund
ntp2.hrz	uni-dortmund.de	129.217.169.229	Uni Dortmund
time	uni-potsdam.de	141.89.64.1	Uni Potsdam (Port 123 - UDP)

hp.rz	uni-potsdam.de		Uni Potsdam
ntp.server	uni-frankfurt.de	141.2.21.74	Uni Frankfurt
timesrv1	uni-jena.de	141.35.1.80	Uni Jena
timesrv2	uni-jena.de	141.35.1.32	Uni Jena
timesrv3	uni-jena.de	141.35.1.18	Uni Jena
ntp.rhrk	uni-kl.de	131.246.9.116	Uni Kaiserslautern
ntp1	lrz-muenchen.de	129.187.10.32	LRZ München
ntp2	lrz-muenchen.de	129.187.14.10	LRZ München
r.informatik	uni-bremen.de	134.102.202.1	Uni Bremen
ntps1	gwdg.de	134.76.10.46	GWDG Göttingen
ntps2	gwdg.de	134.76.98.232	GWDG Göttingen
ntps3	gwdg.de	134.76.249.201	GWDG Göttingen
swisstime	ethz.ch	129.132.2.21	ETH Zürich
tempo.cstv.to	cnr.it	150.145.33.1	CSTV of National Research Council, Italien
time1	asco.de	217.13.70.146	Asco.de (Braunschweig)
time2	asco.de	217.13.70.246	Asco.de (Braunschweig)
time3	asco.de	213.133.98.240	Asco.de (Braunschweig)
time	versatel.de	212.7.128.162	Versatel Deutschland

We make no guarantee of completeness or accuracy of this list.

10.6 Limitation of liability

We try to keep our software as bug-free as possible. But in general: No software is bug-free and the number of errors increases with the complexity of the program. Therefore, we can not guarantee that this software runs without errors in any environment, on any computer and with any other applications together. Any liability for damage of any sort is hereby excluded unless permitted by law. In any case is limited the liability to the purchase price of the software or device. We be liable also especially not for costs incurred by several times sent telephone messages.

Although we had been taken great care at this writing, we can not guarantee the complete accuracy of the information contained herein and accepts no responsibility, either for an error is occurring or for any damages arising from their use. The hardware and software products are subject to continuous development in terms of function, usage and presentation. Your description has therefore no binding contractual character. The data given in the manual apply only to the current version. The current status is noted in the change log.

This manual contains the necessary information for the proper use of the products described herein. It is intended for technically qualified personnel who are either familiar as engineering personnel with the safety concepts of automation technology or has suitably trained as operators to scale with automation equipment and knows the relating to the operation contents of this manual, installation or service personnel for repair such automation. The products are designed in accordance with the relevant VDE regulations, VDE and IEC recommendations, manufactured and tested.

Hazard warnings:

These warnings both serves as a guide for people involved in the project and also to protect against damage to the product described or connected devices.

Appropriate use, device design and assembly:

The device may only be used for the manual and in the technical description, technical description and only in connection with the recommended third-party devices and components.

Attention: All procedures described in this guide are guaranteed in full only when using the latest equipment stand.

Further it should be noted that

- the proper and safe operation of the product requires proper transport, proper storage, installation and assembly as well as careful operation.
- the automation device must to be energized before it is assembled, disassembled or the configuration is modified.
- the systems must be installed by an qualified electrician. Here are considered the relevant requirements of DIN and VDE.

Instructions for configuring and installing the product

- In the specific individual case must be observed applicable safety and accident prevention regulations.
- At 24V supply a reliable electrical isolation of the low voltage to look for. To IEC 364-4-41 or HD 384.04.41 (VDE 0100 Part 410) use power supply devices.

Prevention of factual- damage and personal injury

- The voltage values quoted must be respected nor exceeded, as this may cause malfunction or damage the devices.
- Everywhere where faults in the automation device errors can cause major property damage or even personal injury, additional external precautions taken or facilities provided to ensure even in case of failure, a defined operating state or enforce (eg independent limit switches, etc mechanical interlocks etc .))

10.7 Lightning protection

It is strongly recommended that the device be secured against surges on supply voltage and input on the phone with appropriate protective equipment.

10.8 Warranty

Warranty Period: 6 months, with appropriate handling.