

Remote Control Unit

RCU 1

for Standard and Profi Line Head-End Stations



English

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structio

GSS Grundig SAT Systems GmbH Beuthener Strasse 43 D-90471 Nuremberg Phone: Fax: E-mail: Internet: +49 (0) 911 / 703 8877 +49 (0) 911 / 703 9210 info@gss.de http://www.gss.de

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1 Safety regulations



- Assembly, installation and servicing should be carried out by authorised electricians.
- Observe the safety regulations and notes in the assembly instructions for the cassettes and head-end station used as well as the relevant safety instructions e.g the standards IEC/EN/DINEN 50083 and IEC/EN/DINEN 60728.



Take action to prevent static discharge when working on the device!

General information 2

Packing contents 2.1

- 1 RCU 1
- 1 network cable 2 m
- 1 RS-232 cable (9-pin Sub D)
- 2 RS-232 plug (9-pin Sub D)
- 1 ribbon cable (9-pin ca. 3 m)

2.2 Meaning of the symbols used



Important note

- General note
- Performing works



2.3 Technical data

The devices meet the following EU directives: 2006/95/EC, 2004/108/EC The product fulfils the guidelines and standards for CE labelling.

Connections

LAN	1 RJ-45 socket
RS-232:	2 Sub D 9-pin socket
Socket 1 for a	connecting the head-end station (incl. power supply)
Socket 2	for connecting a 2nd head-end station
	or a monitoring cassette PSCU 6000/HSCU 6000
	or a backup system PRS 16/8

<u>SNMP (Simple Network Management Protocol - version 1):</u> Alarm messages from the monitoring cassette PSCU 6000 / HSCU 6000 can be sent by SNMP trap.

Monitoring cassette PSCU 6000 / HSCU 6000

The following items are signalled:

- Level of the output signal measured via PSCU 6000 / HSCU 6000
- BIT error rate at QAM output signals
- Present line synchronizing signal at analogous PAL output signals
- Present RDS station name at FM output signals
- Quality of the input signal (good, poor and no signal) at QPSK-PAL double transmodulators as well as QPSK- QAM transmodulators

Remote control and remote software updates:

- Remote control is possible at all current cassettes and head-end stations of the Standard- and Profi Line.
- To find out which cassettes can be updated via remote control see the product information on "www.gss.de".
- Software updates are done via the BEflash software.

Required index levels for remote control and remote updates:

PSW 1000	index level:	\geq V37
BeFlash	index level:	\geq V42
BE-Remote	index level:	\geq V43

2.4 Description

Hardware concept:



The RCU 1 management system is equipped with a Server which can be connected to a PC or a LAN network via the LAN interface. A connection to the internet (and thereby remote control) is possible via a router.

The basic units can be configured and remote controlled with software PSW 1000, a remote controlled software update of the cassettes can be done with software BE-Flash.

The RCU 1 has two RS-232 interfaces (Sub D connectors):

- Via interface 1 the RCU 1 will be connected to the control unit of the headend station to be remote. Also the power supply is done by this connection.
- Via interface 2 a second head-end station, the monitoring cassette PSCU 6000/HSCU 6000 or the backup system PRS 16/8 can be controlled.

Error messages from the PSCU 6000/HSCU 6000 monitoring cassette can be forwarded by e-mail or SNMP trap.

A connected backup system PRS 16/8 can be configured by the software PSW 1000 via the RCU 1.

2.5 PC / laptop system requirements

System requirements for the PSW 1000 software:

- PC or laptop with a Pentium processor,
- Windows 95*/98*/ME/2000/Vista/7 (*from Internet Explorer 5 on),
- At least 32 MB RAM, at least 50 MB free space on hard drive,
- LAN interface (RJ 45 socket)
- Serial interface (RS-232 D-SUB socket)
 For PCs / laptops with a USB connection (without a serial interface), please use a standard USB / RS-232 adapter.
- Internet access for downloads and remote maintenance.

2.6 Overview of the management unit



- (1) RS-232 interface 1 connector for the head-end station (including the power supply)
- 2 POWER ON-LED
- (3) RS-232 interface 2 connector for a 2nd head-end station, a PSCU 6000/ HSCU 6000 or a PRS 16/8
- 4 Reset button (software reset)
- 5 MAC address
- 6 LAN socket
- (7) Hole for the mounting screw

3 Installation

3.1 Mounting and connecting the management system

The RCU 1 will be mounted below the control unit instead of the mask at the power supply unit.

- Remove the front cover of the head-end station.
- Disconnect the mains cable at the power supply unit.
- Unscrew 2 screws 7, 8 (Fig. A).
- Remove the power supply unit from the head-end station.
- Disengage 2 latches 9 and remove the cover (Fig. E).
- Reassemble the power supply unit and fasten it with screw 8.
- Mount the RCU 1 in the oblong hole and fasten it with screw 7 (Fig. B).
- Connect the RS-232 socket 1 of the RCU 1 via the supported RS-232 cable to the RS-232 socket of the control unit (Fig. C).
- Connect the mains cable to the power supply unit and switch on the headend station.

-> The display is switched off during synchronisation (about 30 seconds, Fig C).







3.2 Assembling a connection cable

External components are connected to the management unit with 1:1 RS-232 cables. You can assemble these cable in the required lengths by using the supplied RS-232 plugs and the ribbon cable.



- Cut off a section of cable to the required length.
- Insert the ends of the cable into the openings on the RS-232 plug and RS-232 socket, making sure they are pushed in all the way.
- Firmly close the sliders on the blade contacts.

3.3 Connecting further components

• If necessary connect a 2nd head-end station, the monitoring cassette PSCU 6000/HSCU 6000 or the backup system PRS 16/8 to the RS-232 socket 2 by using a self-made 1:1 RS-232 cable.

A combination with HRCU 8/PRCU 8 is not possible!

3.4 EMC regulations

To comply with the current EMC regulations, it is necessary to connect the lines leading in and out of the head-end station using cable terminals.

4 Installing the software on a PC or laptop

The PSW 1000 and BE-Flash software are not included in the scope of delivery of the RCU 1. The most current version can be downloaded from "www.gss.de". If you do not have internet access, we will send you a DVD on request.

4.1 Key code (activation code) for the software

A key code is required for the activation of the PSW 1000 software. This can be obtained from your regional authorised distributor.

4.2 Installing the software

The PSW 1000 software can be downloaded from "www.gss.de". If you do not have internet access, we will send you a DVD on request.

- Unzip the "PSW1000_Vxx.zip" file and start the "setup_PSW1000_Vxx.exe" programme by a double click.
- Select the desired language "German", "English", "Español" or "Français" and click the OK button to confirm.



• When the "Setup-PSW1000" menu appears, click the "Next >" button.

Setup - PSW1000	
License Agreement Please read the following important information before continuing.	
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
LIZENZVERTRAG	^
Disser Software-Lizenzvertrag für das Programm PSW (nachholgend "Programm(s)" und das zugehöges Handbuch (zugenmen das "Programm-Pakel(s)") zwischen der Grundig SAT-Systems GmbH, Beuthener Strasse 43, 90471 Nürnberg (nachholgend "GSS") und dem Berutzer wid mit der Installation des Programms durch dem Bratzer abgeschlossen.) —
Das Programm und das Handbuch sind urheberrechtlich geschützte Werke. Dieser Lizenzvertrag berechtigt den Benutzer des Programm-Pakets zu dessen Nutzung im nachfolgend angegebenen Umfang. Eine weitergehende Verwertung ist	~
accept the agreement	
OI do not accept the agreement	
girsh	Cancel

- Read the license agreement.
- Select "I accept the agreement" and click the "Next >" button.
- A table will appear which lists the software versions of the cassettes which are compatible with the PSW 1000 software.

🕞 Setup - PSW1000								
Information Please read the following important information before continuing.								
When you are ready to cor								
Attention: PSW software became wil Tested for software version Please executing update.	Bitention: PSW software became with the followings Tested for software versions. Please executing update.							
Control Unit: HRCU 8: HSCU 6000: HDE 200: HDM 100C/314C/315C: HDM 20x	V.38 (Digital Backplane from V.40b) V.19 V.18 V.18 V.1 V.1 V.2							
HDM 2360: HDM 2361-2365: HDM 2370:	V. 4 V.15 V.16b	~						
English	< <u>B</u> ack Next	> Cancel						

Caution:

After installing the PSW 1000 software, update the software for the cassettes if necessary.

- Click the "**Next >**" button.
- Specify the directory in which the PSW 1000 should be installed (e.g. C:\Programs\GSS\PSW1000).

🕞 Setup - PSW1000						
Select Destination Location Where should PSW1000 be installed?						
Setup will install PSW1000 into the following folder.						
To continue, click Next. If you would like to select a different folder, click Browse.						
C:\Programme\GSS\PSW1000 Browse						
At least 8,5 MB of free disk space is required. Ennlish						
<back next=""> Cancel</back>						

- Click the "Next >" button.
- Enter a name for the shortcut to the program which will be created in the start menu.



- Click the "Next >" button.
- Click on "**Install**" in order to proceed with the installation of the program, or on "**Back**" to make corrections or changes.

🕼 Setup - PSW1000								
Ready to Install Setup is now ready to begin installing PSW1000 on your computer.								
Click Install to continue with the installation, or click Back if you want to review or change any settings.								
Destination location: C:VPogrameVGSSVPSW1000 Start Menu folder: GSS	K							
	<u>></u>							
izinglism	Cancel							

A key code is required for the activation of the PSW 1000 software. This can be obtained from your regional authorised distributor.

GSS Key	X
🖉 ОК	X Abbrechen
🖉 ОК	X Abbrechen

Click the "OK" button when entered the 25 key code.

LAN configuration

The "static" (fixed) IP address 192.168.0.120 and Port 60002 is set to the RCU 1.

If another IP address range is used in your network or this IP address is already in use, first the IP address of the RCU 1 must be changed. If several RCU 1 are used in the network, different IP addresses and port numbers must be assigned for the RCUs:

- Set a static IP address to your PC which is in the address range of the RCU 1 (e.g. 192.168.0.2, Subnetmask 255.255.255.0).
- Connect your PC directly to the RCU 1 via a LAN cable.

Configuration via PSW 1000:

• Start the PSW 1000 software.

-> The installation of the PSW 1000 software is described in chapter 4 (page 9).

• Click the 👝 button.

-> The "Connection settings" window is activated.

- In the menu "Connection settings" in area "Choice" select "Ethernet".
- Enter the IP address and separated by a colon the port of the RCU 1: **192.168.0.120:60002**
- Click the "OK" button.

GSS Progress	X
Conne	ction will be activated
	Rassword
	Enter password:
	V OK X Cancel



- If a password was set before enter the password.
- Click the "OK" button.

	> Th	ne status Dnline	indicator	left	belov	v wil	l change	from	۲	Offline	to
 Click th 	e 🔶 bu	utton									
	rogress	Check P	lant		×	Read d	ata ■ ∰ Plant ■ ∰ RCU1 ■ □ ∭ Station □ ⑦ Timer				
						•	Overwriting everyth	ning (Overwriti X Ca	ng choice Incel	

• Select which data should be imported.

-> At least select "RCU 1". We recommend to import the complete data of the plant.

• Click the "OK" button.

-> The selected data will be imported.



• Click the **set** button.

-> The "Plant settings" window is activated.

• Select the Ethernet settings using tab Ethernet .

GSS Plant settings		
Station data IP-Adresse : Port 192.168.0.120:60002 PRCU/HRCU: RCU 1	Location of the plant Example Town I PSCU/HSCU available	Street of the plant Example Street
Password Modem Ethernet Alarm Settings IP: 192.168.0.120 Port: 60002	settings Alarm Modern Alarm E-Mai Mask: 255.255.255.0 Gateway: 192.168.0.1	I Alarm SNMP-Traps Enter ethernet password:
HTML Port: 80	e over	🔍 Take over
🗸 ок	🗙 Cancel	? Help

- Enter the settings necessary for your network. Use only ports in the range of 35000 60100 or 61000 65000!
 Note the settings!
- Click the Take over button
- Enter the password (the standard is "GSS").

GSS Progress		×
	Ethernet is described	
	X Cancel	
	~	

GSS

-> The head-end station reboots (ca. 1 minute).



 \rightarrow Now the RCU 1 is configured for your LAN network.

- Disconnect the LAN connection to your PC.
- Connect the RCU 1 to your network.

Configuration via browser:

- Start any internet browser.
- Enter the IP address of the RCU 1 (http://192.168.0.120) at the address line of the browser and press the "Enter" button:

> The "	'Login" win	dow is activated.	
	Connect to 192	.168.0.120	? 🔀
		GP.	
	User name:	🕼 RCU1	~
	Password:	••••	
		Remember my password	
		OK Cance	9

• Enter the user name ("RCU1" is the standard value) and the password ("GSS" is the standard value) and click the "OK" button.

	GSS	
	Grundig SAT Systems	
	Vanagement. Unit RCU1	
	Setup	
n e		
e	Frundiz SAT Systems GmbH	

• Click the "Setup" button.

RCU 1 Setup		
IPv4-Adress: 192.168.0.120		
Subnetmask: 255.255.255.0		
Gateway: 192.168.0.1		
TCP Port: 60002		
HTML Port: 80		
Save & Reboot		
New Password:		
Repetition:		
Save		

• Enter the settings necessary for your network. Use only ports in the range of 35000 – 60100 or 61000 – 65000! Change the password if necessary and store it with button "Save".

Note the settings!

• Click the "Save & Reboot" button.

The changed settings are transmitted to the RCU 1.
 RCU 1 reboots.

- \rightarrow Now the RCU 1 is configured for your LAN network.
- Disconnect the LAN connection to your PC.
- Connect the RCU 1 to your network.

Check the configuration at the control unit of the head-end station:

 Activate the "System information" software by simultaneously holding down the buttons and b for more than 2 seconds in the "Selecting the cassette" mode.



• Press the **MODE** button so many times until the network configuration is shown in the display of the RCU 1.



• Press the **MODE** button.

RCU-1	IP-MASK
255.255.	255.0

• Press the MODE button.

RCU-1 IP-0	GATEV	VAY
192.168.	0.	1

• Press the MODE button.





6 Software version of the management system

The software version of the RCU 1 is shown in the "Detail of choise" menu of the management system when the plant settings are imported.

Edit Options Language	Help	
		8/1
	Detail of choice	
ant (RCU 1)	Description	Value
Station 1 (Free)	Location of the plant	Musterstadt
Station 2 (Free)	Street of the plant	Musterweg
	Telefonno. or IP:Port Adress	40000120.60002
	RCU 1 Software version	
	Ethemet	
	IP-adress	192.168.0.120
	Port	60002
	Mask	255.255.0
	Gateway	192.168.0.1
	HTTP Port	80
	HTTP Login User	RCU1
	Alarm settings	
	Waiting time alarm report	5
	Error message!	English
	Alam E-Mail	
	SMPT Port	25
	Provider	smtp.muster.de
	User	muster@muster.de
	Password	passwort
	Subject	Fehler BCU1
	E-Mail 1	help1@muster.de
	E-Mail 2	help2@muster.de
	E-Mail 3	ben3@mister.de
	Alarm SNMP-Trans	
	Trans 1	192168.0.142162
	Trans 2	1921580143162

7 Software update (firmware)

The software update of the RCU 1 is to perform by a TFTP server programme (e.g. "Tftpd32").

This programme is included in the ZIP file of the RCU 1 software.

You will find the current software version for the RCU 1 at "www.gss.de". If you do not have internet access, we will send you a DVD on request.

If the LAN configuration is unknown, detect it, like described in chapter 5 "Check the configuration at the control unit of the head-end station".

- Connect a PC like described in chapter 5 "LAN configuration" directly to the RCU 1.
- Start the TFTP server programme "Tftpd32.exe" at this PC.
- Select the " Tftp Client " menu.

🏘 Tftpd32 by Ph. Jounin		
Current Directory C:\Dokumente und Einstellungen\hofrr	Browse	
Server interfaces 192.168.0.122	Show Dir	
Tftp Server Tftp Client DHCP server Syslog server Log v	iewer	
Host 192.168.0.120 Port 69		
Local File C:\rcu1_1.bin		
Remote File /var/firmware.img		
Block 1024 V		
Get Put Break		
About Settings	Help	

- Perform the following settings:
 - Host: IP address of the RCU 1 (e.g. 192.168.0.120)
 - -> For a remote controlled update the external (public) IP address of the router connected to the RCU 1 must be entered.
 - Port: 69
 - -> For a remote controlled update port forwarding for TFTP port 69 (UDP protocol) must be configured at the router connected to the RCU 1.

- Local File: Enter the path of the file of the new software version using button "...." (e.g. C:\rcu1_1.bin).
- Remote File: /var/firmware.img
- Block Size: e.g. 1024 (size of the data blocks to be transmitted).
- Start the update with button "Put"

—> The transferred blocks and the progress is shown.				
	👋 Tftpd32 by Ph. Jounin			
	Current Directory C:\Dokumente und Einstellungen\hofm Browse Server interfaces 192168.0.122 Show Dir Tftp Server Tftp Client DHCP server Syslog server Log viewer Host 192.168.0.120 Port 69 Local File C:\rcu1_1.bin Remote File /var/firmware.img Block 1024 Size block #1164 Get Port Break			
	→ A message like this one is shown after a successful update			

8 Reset

If RCU 1 "hang up", it can be reset by the reset button.

-> Using a remote controlled IP power strip you can perform a remote controlled reset of the entire plant.

9 Factory Defaults

By the following procedure you can reset the passwords, the LAN configuration or the complete RCU 1 to factory defaults.

If the LAN configuration is unknown, detect it, like described in chapter 5 "Check the configuration at the control unit of the head-end station".

- Connect a PC like described in chapter 5 "LAN configuration" directly to the RCU 1.
- Start the Command Prompt (Start -> All Programs -> Accessories -> Command Prompt) at the PC.

- Enter the following sequence: telnet 192.168.0.120
 - -> Instead of "192.168.0.120" enter the IP address of the RCU 1. If an error message occur "telnet" must be activated in the operating system.
- Press the "ENTER" button.
 - -> DISPLAY:
 - Connecting to 192.168.0.120...
 - —> Display is cleared new DISPLAY: uClinux login: _
- Enter the following sequence: root
- Press the "ENTER" button.



Reset the passwords:

- Enter the following sequence: manudef password
- Press the "ENTER" button.

->	DISPLAY: Factory password settings restored.		
	Settings overview:		
	LAN-Password: Configuration-Password:	GSS has been removed	
	>>> System is rebooting i	n 3 seconds.	
->	The Ethernet (LAN) passv	word is reset to "GSS", the configuration	

password has been removed, the connection is closed, RCU 1 reboots.

Reset the LAN configuration:

- Instead of "manudef password" enter the following sequence: manudef network
- Press the "ENTER" button.

-> DISPLAY:

Factory network settings restored.

Settings overview:

IP:	192.168.0.120	
Gateway:	192.168.0.1	
Netmask:	255.255.255.0	
TCP-Port:	60002	
HTML-Port:	80	

>>> System is rebooting in 3 seconds.

-> The LAN configuration is reset to the values shown above, the connection is closed, RCU 1 reboots.

Reset to factory defaults:

- Instead of "manudef password" enter the following sequence: manudef factory
- Press the "ENTER" button.

	Settings overview:		
	======================================	 192 168 0 120	
	Gateway:	192.168.0.1	
	Netmask:	255.255.255.0	
	TCP-Port:	60002	
	HTML-Port:	80	
	LAN-Password:	GSS	
	Configuration-Password:	has been removed	
	>>> System is reporting i	n 3 seconds	
	Joseffin is rebooling i		
_>	The RCU 1 is reset to for	ctory defaults, the connection is closed	

-> The RCU 1 is reset to factory defaults, the connection is clo RCU 1 reboots.

10 Remote access via Internet

To get remote access via internet the router connected to the RCU 1 must be connected to the internet. In addition the "public" IP address with which the router is connected to the internet must be known.

-> Therefore you either need a "fixed", "static" public IP address, or you need to check the public IP address of the router before every remote maintenance via respective providers of dynamic DNS services (e.g. DynDNS.com).

For remote maintenance via internet "Port Forwarding" must be configured at the router.

- -> Pay attention for the operating instruction of the router.
- -> If several RCU 1 are used, for each port used "Port Forwarding" must be configured.
- -> To get remote access via internet you need a PC with internet access
- Start the PSW 1000 software.
 - -> The installation of the PSW 1000 software is described in chapter 4 (page 9).
- Click the 👝 button.

-> The "Connection settings" window is activated.

- In the menu "Connection settings" in area "Choice" select "Ethernet".
- Enter the public IP address and separated by a colon the port of the RCU 1: 212.20.172.000:60002
- Click the "OK" button.

GSS Progress	X
Connection	will be activated
	Ressword
د ا	Enter password:
	V OK X Cancel

GSS Connection	settings		×
Choice			
C Com	C Modem	Ethernet	
IP-Adresse : Port			
212.0	0.127.0:60002		
	ĸ	Y Cancel	



- If a password was set before enter the password.
- Click the "OK" button.



• Select which data should be imported.

-> We recommend to import the complete data.

• Click the "OK" button.



GSS Progress		×
	RCU 1 is read	
	🗙 Cancel	

-> The operation of the software PSW 1000 is described in the help file which is included in the software.

11 Software update of cassettes via the BE-Flash software

-> The RCU 1 management system must already be configured.

• Start the "BEflash.exe" programme (download from "www.gss.de").

📕 BE-Flash V.35		
File Action Deutsch Help		
e D 🔋		
Program-Data:	Configuration:	
	Serial Port:	
	Ethernet	•
	Production Line:	
	Fernupdate	-
	Device:	
	PSCU6000 Überwachung	•
Config-Data:	,	
000000: FF FF FF FF FF FF FF FF	F FF FF FF FF FF FF FF	~
000010: FF FF FF FF FF FF FF FF	F FF FF FF FF FF FF FF	1
000020: FF FF FF FF FF FF FF FF	F FF FF FF FF FF FF FF	_
000030: FF FF FF FF FF FF FF FF	F FF FF FF FF FF FF FF	_
000040: FF FF FF FF FF FF FF FF	F FF FF FF FF FF FF FF FF	
000050: FF FF FF FF FF FF FF FF	F FF FF FF FF FF FF FF FF	_
000060: FF FF FF FF FF FF FF FF	F FF FF FF FF FF FF FF FF	_
000070: FF FF FF FF FF FF FF FF	F FF FF FF FF FF FF FF FF	~

- Set field "Serial Port:" in area "Configuration" to "Ethernet".
- Select in field "Device:" in area "Configuration" the type of cassette which shall be updated.
- Open menu "File"/"Open ..." and select the corresponding data file (current software you will find at "www.gss.de").



- -> At current cassettes and current software versions the type of cassette is selected automatically, the selection field "Device" is hidden.
- At older cassettes select the type of cassette which shall be updated in field "Device:" in area "Configuration".

• After pressing the D button or selecting the menu "Action" / "Program" the window "Select IP-Address" appears.

Select IP-Address	
IP:Port [Information] 212.20.172.0:60002 Info	•
Password:	
, ✔ 0К	X Abbruch

- Enter the IP address and the port separated by a colon.
 - $-\!\!\!>$ In the example the IP address 212.20.172.0 and port 60002 is used.
 - -> IP address and port must be set to the same value as selected during the configuration of the RCU 1, respectively the public IP address of the router and the port which must be forwarded to the RCU 1.
- Enter the password and click the "OK" button.
 - -> The submenu "Select Box" shows the current software version of the cassette and the slot in which the cassette is fitted. In this menu the cassette to be updated can be selected.
- Start the programming by clicking the "OK" button.
 - -> At some cassettes the programming starts not until the transmission is finished.
 - -> Round about 45 minutes can be needed for transmission and programming of one cassette.
 - -> "Programming OK" is shown in a green status line when the programming is finished successfully.
 - -> In case of an error, the error text is shown in a red status line.

12 Alarm messages by SNMP traps

Alarm messages can be sent by SNMP (Simple Network Management Protocol – version 1).

• Activate the submenu "Plant setting" by clicking the **EE** button or selecting the menu "Edit"/"Plant setting".

GSS Plant settings			
Station data IP:Adresse : Port 192.168.0.120:60002	Lo Ex	cation of the plant xample Town	Street of the plant Example Street
PRCU/HRCU: RCU 1	• •	PSCU/HSCU available	
Password Modem Eth	ernet 🛛 Alarm settings	Alarm Modern Alarm E-Ma	il Alarm SNMP-Traps
Password New password			
Repeat password			
	🔒 Test passwo 🔦 Saving passw	rd	
~ (JK	🗙 Cancel	🕐 Help

- -> A PSCU 6000 / HSCU 6000 for monitoring must be present in your plant and the check box "PSCU 6000 / HSCU 6000 available" must be activated.
- Activate the submenu "Alarm SNMP-Traps".

GSS Plant settings		
Station data IP:Adresse : Port 192.168.0.120:60002 PRCU/HRCU: RCU 1	Location of the plant Example Town I PSCU/HSCU available	Street of the plant Example Street
Password Modem Ethernet IV 192168.0.1 IV 192168.0.1 IV 192168.0.1	Alarm Settings Alarm Modem Alarm E-Mail 12.162 13.162 19.162	Alam SNMP-Traps
OK	Cancel	? Help



-> Three IP addresses can be entered and activated by hooks.

In case of an alarm message it will be sent to the activated IP addresses as a SNMP trap.

Below see an example of the structure of an alarm message:

12 Final procedures



After installing the head-end station, upgrading accessories or installing cassettes it is necessary to tighten all cable connections, cable terminals and cover screws in order to maintain compliance with current EMC regulations securely.

• Mount the front cover (see assembly instructions of the head-end station).