# **FLEXIT CS1000**

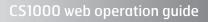
Installation instructions and user guide
Web operation



ACX52.22 WEB and OPC ART.NO: 55576











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#### 1 Introduction

#### 1.1 About this document

This document contains information on how to install and configure the Saphir controller (ACX32) with the communication unit/ RCC card ACX52.22 (VVS12SP1) for web mad by ASP.

#### 1.2 Requested applications and material

The following applications and material are needed to configure and use Saphir Web:

- Internet Explorer
- Web pages for the actual application
- Compact Flash memory card to store web pages.

#### 1.3 About the RCC card

RCC is a communication card that can be used in conjunction with the SAPHIR primary controller ACX32. It contains among other things:

- Web server and FTP server.
- TCP/IP connection
- Windows CE

IP address assignment is either dynamic via a DHCP server, or it can be manually preselected via HMI.

RCC can also log on to a WINS server if there is one present on the network.

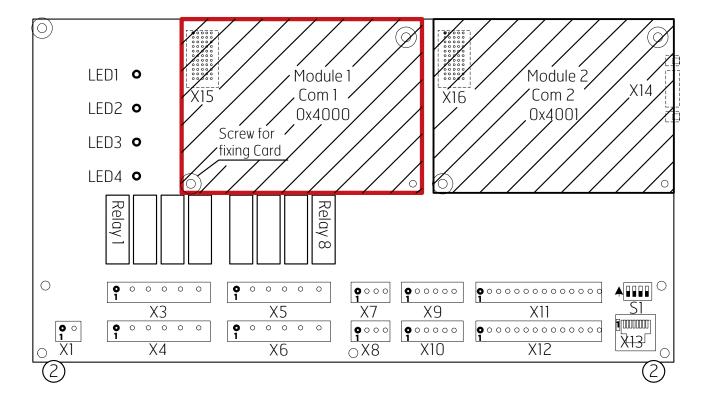
For file transfers and setup of the RCC card, connect to the FTP server

To access the main user interface (which includes monitoring functions etc), connect to the web server.

The RCC card (Windows CE image) can be updated by using a special application/tool. Files may also be updated via the FTP server.



Fig. 1: ACX32



## 2 Installation

#### 2.1 Installing the RCC card

Follow the instructions below to install the RCC card on the Saphir controller.



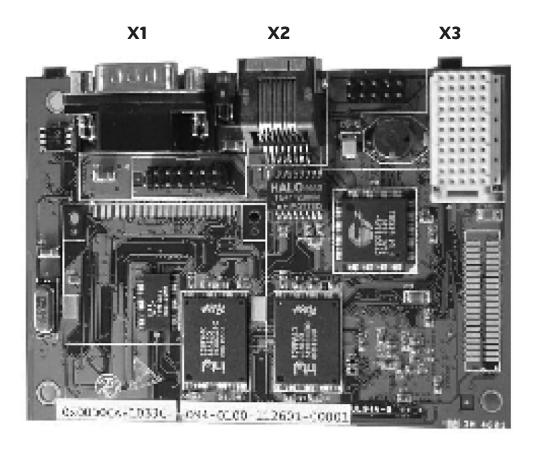
**IMPORTANT!** Connect yourself to ground to avoid static electricity that could seriously damage the circuits.

- 1. Power off.
- 2. Dismount the two forward outside screws on the cover with a type Torx 10 screwdriver or a flat chisel.
- 3. Mount metal fixing supports.
- 4. Place the card with belonging cover plate in the "Com 1" slot
- 5. Check that the card is connected correctly.
- 6. Fix card with the screws that are in the kit.
- 7. Remount the cover of the controller.
- 8. Turn the power on.





Fig. 2



#### 2.2 TCP/IP connection

Follow the instructions below to set up the TCP/IP connection.

- 1. Prepare the unit with all settings before commencing the TCP/IP install.
- 2. Attach the network cable to connector X2.
- 3. Restart by switching the power off and then on again.
- 4. Log in with password (1000 or 2000). Navigate to the following menu:

# System parameter Communication

#### **RCC** configuration

- 5. Here, the IP-address can be monitored or changed.
- 6. If a DHCP server exists, the given IP address can be monitored.
- 7. A specific IP-address can be entered, completing the following sequence:
- enter the menu Change IP.
- Change DHCP to Fixed.
- Enter the new address.
- To confirm the new address replace **Apply** with **Yes**.
- 8. Restart by switching the power off and then on again.

#### 2.3 Inserting the memory card



**IMPORTANT!** Turn the power off before inserting the memory card.

Insert a Compact Flash (CF) memory card in the memory slot on the RCC unit. This memory card will contain all web pages that will be used.

A capacity of at least a 256MB is required, as the history/trend function requires a lot of space.



# **Configuration**

#### 3.1 General

The Compact Flash memory card must be loaded with web pages for the actual application. You can either use the FTP server or an external memory card reader to load web pages.

To connect to the FTP server, Internet Explorer must be configured.

#### 3.2 Internet Explorer settings

Settings in Internet Explorer for the FTP server (Fig. 3).

Open Internet Explorer settings:

Tools - Internet settings - Advanced.

Check the box for Activate view for FTP-sites.

**Use passive FTP** - depending on network architecture this option must be checked or unchecked.

Press, **OK** if changes have been made.

#### 3.3 Communication test

#### 3.3.1

Ping the RCC card with the WINS or the IP address to test the communication (Fig. 3).

(WinStart->Run->Open "CMD")

C:\>ping sbt\_rcc\_v2\_0AC1

If the ping test fails, something could be wrong in the network, or the TCP/IP settings are wrong.

Make sure that the ping test results are ok before continuing.

If the Compact Flash card is already loaded, continue to section 3.5.

#### 3.3.2

Connect to the Saphir via Internet Explorer to test the web

For example; "http://SBT\_RCC\_V2\_OAC1"

Fig. 3

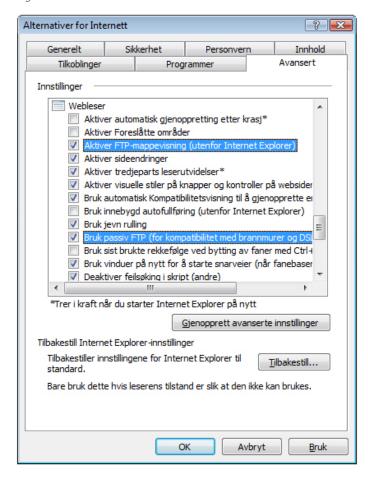
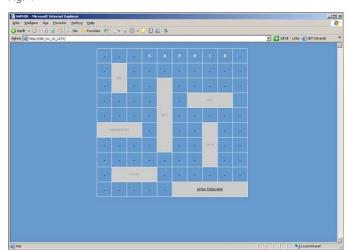


Fig. 4







#### 3.4 Loading web pages via FTP server

Connect to the FTP server for file transfers and setup of the RCC card.

If the Compact Flash memory is empty it must be loaded with web pages for the actual application, by using the FTP server on the RCC card.

#### 3.4.1

Connect to the Saphir FTP server via Internet Explorer to load the web pages. For example: ftp://ADMIN@SBT\_RCC\_V2\_OAC1/ or ftp://ADMIN@146.253.69.197/

Log in with (Fig. 5):

User name: ADMIN Password: SBTAdmin!

#### 3.4.2

Open Storage Card (Fig. 6).

# **3.4.3** Right click and select **New Folder**, and name the new folder **HTML** (Fig. 7).

Fig. 5



Fig. 6

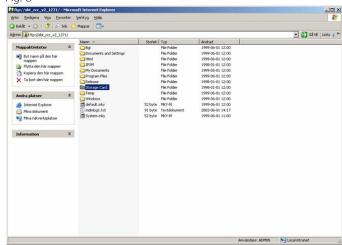
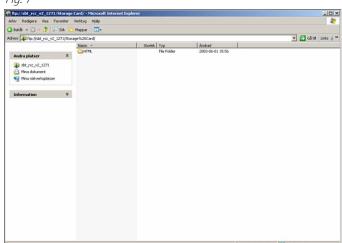


Fig. 7



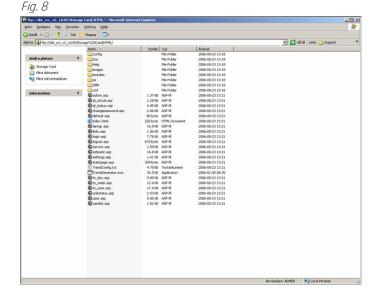


#### 3.4.4

Copy all web pages to the HTML folder (Fig. 8).

#### 3 4 5

Restart by switching the power off and then on again.



3.5 Testing the web server

Connect to the Saphir via Internet Explorer. Depending on web application, a start page should show, for example; http://SBT\_RCC\_V2\_OAC1/ or http://146.253.69.197/

The web application is password protected (Fig. 9). The Administrator password is:

User name: ADMIN Password: SBTAdmin?

For more information on use, go to the following menu:

Info Help

## 3.6 Log on to WINS server

RCC can log on to a WINS server if there is one present on the network. If logon is successful, the corresponding WINS name can be used to access the device from that time onwards. You can easily determine the WINS name from the sticker on the card or the HMI:

- The top number on the sticker is the RCC's MAC address. It always has the form 00 A0 03 FF xxxx, where xxxx is a sequential number.
- The WINS name is made up of the prefix SBT\_RCC\_V2\_ and xxxx (i.e. the last four digits of the MAC address) do not mix up 0 Zero with the letter 0.

Fig. 9







#### 4 Web menus

## 4.1 System monitoring and status

A flow chart and a table showing the status of the various components in the system is available in the following menus (Fig. 10):

Go to the following menus:

Summary Flow chart

Summary Table

## 4.2 Time program

The time program lets you program the air handling on a daily, weekly or yearly basis (Fig. 11, 12 and 13). For user defineable time lapses, the following values can be selected;

#### Comfort Off

Go to the following menus:

Time program

Day

Week Year Fig. 10

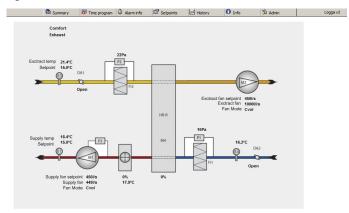


Fig. 10

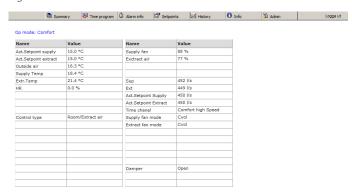


Fig. 11



Fig. 12

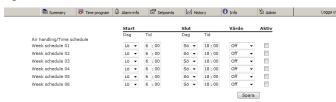
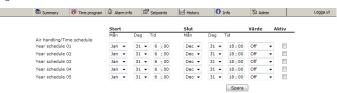


Fig. 13





#### 4.3 Alarms

Information about both active and past alarms are available. The alarm cause and status is given (Fig. 14 and 15).

Go to the following menus:

Alarm info Active alarm

Alarm Info Alarm history

Fig. 14								
	a Summary	Time program	Alarm info	☐ Setpoints	Mistory	1nfo	Admin (	Logga
	Akti	va / Ej kvit	terade lar	m .				
	Nr L	armobjekt			Datum			
Fig. 15								
	Summary	Time program	A	Setnoints	History	1nfn	Admin	Looga

Larmhistorik

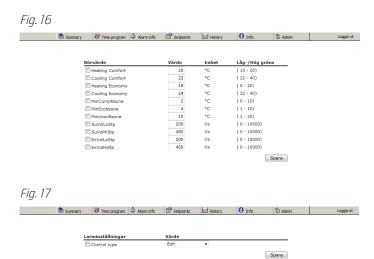
## 4.4 Setpoints

In the Setpoints menus, values for temperatures and air flow rates can be set (Fig. 16 and 17). Changes made can be saved.

Go to the following menus:

Setpoints Setpoint

Setpoints
Controller type







#### 4.5 History

In the History menus, temperatures and air flow rates can be examined (Fig. 18 and 19).

The user can select the logging span, the time span and up to 11 different temperature and air flow rate values. The values can be presented in the form of a diagram or a table.

Go to the following menus:

History Air Air diagram Air table

Fig. 18

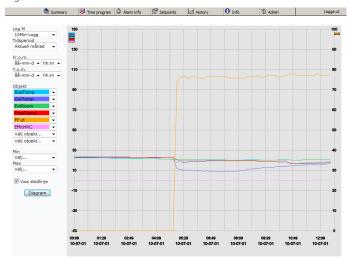
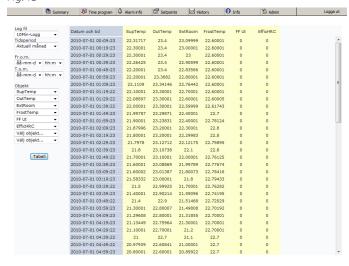


Fig. 19



#### 4.6 Info

Various information and links can be found under the Infomenu.

Go to the following menus:

Info
Links
Operating info
Help
About SAPHIR WEB



#### 4.7 Trend/History

The trend/history application (Fig. 20) must be started manually.

Go to the following menu:

#### Admin File manager RCC file system

- 1. Mark Storage Card and then select Go
- 2. Mark HTML and then select Goto.
- 3. Scroll down and mark TrendGenerator.exe, and select Run.
- 4. Press Run Executable.
- 5. Close the window.

#### The Saphir web application is now ready for use.

Web pages may have a different look depending of application.

Continue to section 4 to set up alarm handling.

Fig. 20

File	File Manager Thursday July 01, 2010 10:40:05						
Dire	Directory Functions  Refresh Copy Delete Rename Move Rename Goto Parent  Directory listing of /						
	Name	Size(Bytes)	Date	Time	Attributes		
	Storage Card	Directory	01/01/1998	14:00:00			
0	Release	Directory	01/01/1998	14:00:00			
0	IPSM	Directory	01/01/1998	14:00:00			
0	Documents and Settings	Directory	06/01/1999	14:00:03			
0	Bgi	Directory	06/01/1999	14:00:00			
0	Html	Directory	06/01/1999	14:00:00			
0	My Documents	Directory	06/01/1999	14:00:00			
0	Program Files	Directory	06/01/1999	14:00:00			
0	Temp	Directory	06/01/1999	14:00:00			
0	Windows	Directory	06/01/1999	14:00:00			
0	trace.txt	2713	07/01/2010	10:37:23	A		
0	mdmlog1.txt	65	06/29/2010	18:48:36	A		
0	System.mky	52	06/01/1999	13:00:04	AHS		
0	default.mky	52	06/01/1999	14:00:03	AHS		
4 files & 10 directories: 2,882 bytes							
Total Disk Space: 4,616,192 bytes							
	Remaining Disk Space: 3,732,348 bytes						





# 5 Alarm handling

Alarms can be sent via email or sms.

#### 5.1 Email

For configuration of alarm handling via email (Fig. 21), go to the following menu:

# Admin Configuration

- 1. Fill in the address to the SMTP Server (E-mail server).
- 2. Fill in "own" email address.
- 3. Fill in email addresses (max 4).
- 4. Fill in "Subject", the subject in the email for each alarm from the actual Saphir.
- 5. Fill in "email message", a message that contains in all e-mails from the actual Saphir. Then fill in "%s" where the actual alarm message should be placed.
- 6. Mark "enable Mail sending".
- 7. Select if an email should be sent for alarm and/or acknowledge alarms.
- 8. Select language for the alarm message (0=Swedish, 1=English e.g.).
- 9. Press "Update all Values".
- 10. Test by press "Send Test Mail".
- 11. Run a test by activating a real alarm in the Saphir.

Fig. 21

Mail Con	fig	7/1/10 11:15:16 AM
With this form yo	ou can setup the RCC's email configuration.	
you have to fill or	vider allows sending mails only with authentica at the POP3 Server section. If your provider out only have to know your SMTP Server and	allows sending mails without any
internet and a con	configuration press the "Send Test Mail" Butto nnection to the MSP could be established the all is cached and you have to setup the dial ou	test mail is send immediately.
Description	Actual Value	
SMTP Server	example.company.com	
own eMail address	cs1000@company.com	
SMTP authentification POP3 before		
SMTP		
authentification		
POP3 Server		
Login Name		
Password		
eMail Address 1	myemail@company.com	
eMail Address 2		
eMail Address 3		
eMail Address 4		☑ Enable Member Settings
Address Number Selected	Active=#1 (bjorn.tore.nordeide@flexit.no)	0X0017 0X01 0X000E
eMail Subject	Test	
	Feil på ventilasjonsaggregat PU-F	Avdeling.
eMail Text (%s inserts Saphir message text)	Må rettes omgående!!!	
enable Mail sending	<b>v</b>	4
send mail when Alarm is going into active state	V	
send mail when Alarm is going into inactive state	<b>V</b>	
Language ID	0	
Update all Va	alues Send Test Mail	





#### 5.2 **SMS**

For configuration of alarm handling via sms (Fig. 22), go to the following menu:

# Admin Configuration

- 1. Fill in telephone numbers (max 4).
- 2. Fill in PIN code for the SIM card, leave blank if no PIN code is used.
- 3. Mark "enable SMS sending".
- 4. Mark if a SMS should be sent for alarm and/or acknowledge alarms.
- 5. Select the language for the alarm message (0=Swedish, 1=English e.g.).
- 6. Press "Update all Values".
- 7. Test by pressing "Send Test SMS".
- 8. Run a test by activating a real alarm in the Saphir.

Fig. 22

SMS Conf	ig			7/1/10 11:21:13 AM
With this form you	a can setup the RCC's SMS	configuration.		
The PIN number	ecessfully a GSM Modem is is sent to the GSM modem of at you only have 3 attempts	only at start up. Af	ter c	changing this you have to reboot ber before the SIM-Card is
Description	Actual Value			
Init String 1	ATZ			
Init String 2	AT&FE0L0M0S0=0&S0			
Init String 3	AT+CGMM			
Init String 4	AT+GCAP			
Init String 5	AT+CREG?			
Init String 6	AT+CSQ			
Init Count	2 🔻			
			■ F	Enable Member Settings
Phone Number 1				0X0017 0X01 0X0007
Phone Number 2				0X0017 0X01 0X0008
Phone Number 3				0X0017 0X01 0X0009
Phone Number 4				0X0017 0X01 0X000A
Phone Number Selected	Active=#1 ()			0X0017 0X01 0X000E
				Update Member Settings
PIN				
ComPort for Modem	COM1:			
enable SMS sending	Send Test SMS marked	Only if the "enab	le SI	MS sending" checkbox is
send SMS when Alarm is going into active state				
send SMS when Alarm is going into inactive state				
Language ID	0			
Update all Va	lues			