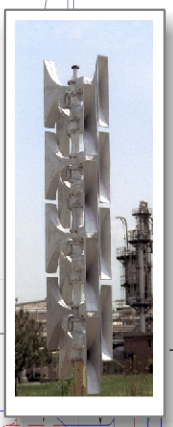
SiRcom

Tecnical Documentation

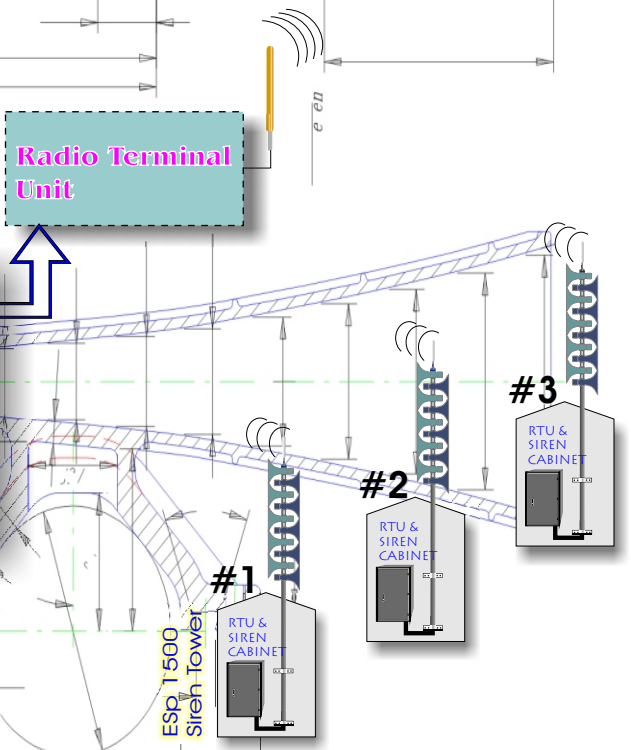
Premium Siren

HW-SW- Manual



SiCAS 2000

&Radio Terminal



ÄNDERUNGEN VORBEHALTEN **Stand: 11/2003**

SIREN CONTROL SYSTEM

TECHNICAL Manual
MCU 2000
Siren Control

Supplier:
SiRcom GmbH
Mühldorfer Strasse 1
D-85661 Forstinning

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SiRcom Technical Documentation MCU

Contents:

SiRcom Technical Documentation MCU

PART 1
HARD WARE

Hardware USER Manual
MCU

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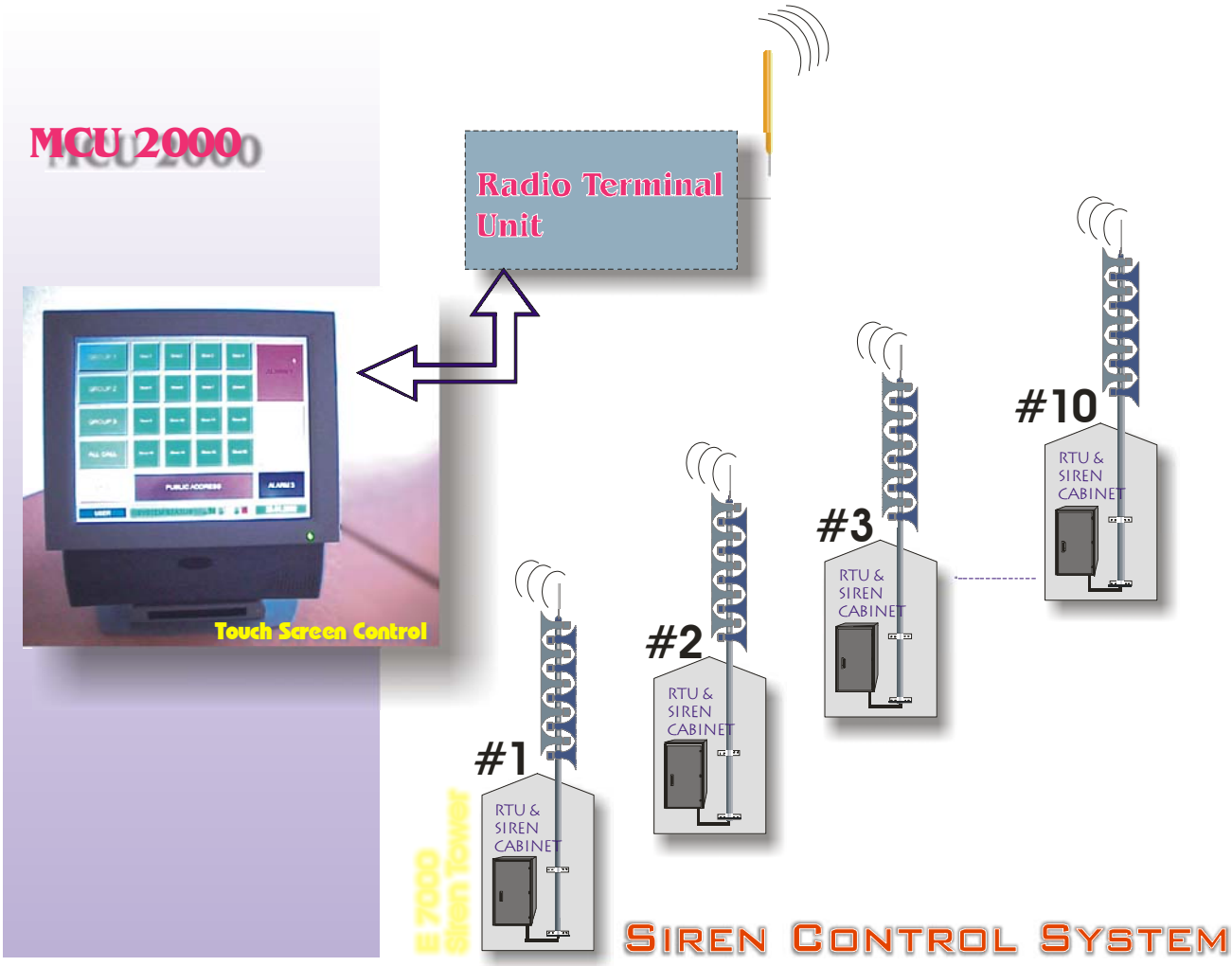
Contents

1) System Configuration

1.1 Overview


MCU 2000
Radio Terminal Unit
Touch Screen Control
#1
#2
#3
#10
RTU & SIREN CABINET
E 7000 Siren Tower
SIREN CONTROL SYSTEM

T

1.2 PC-Equipment

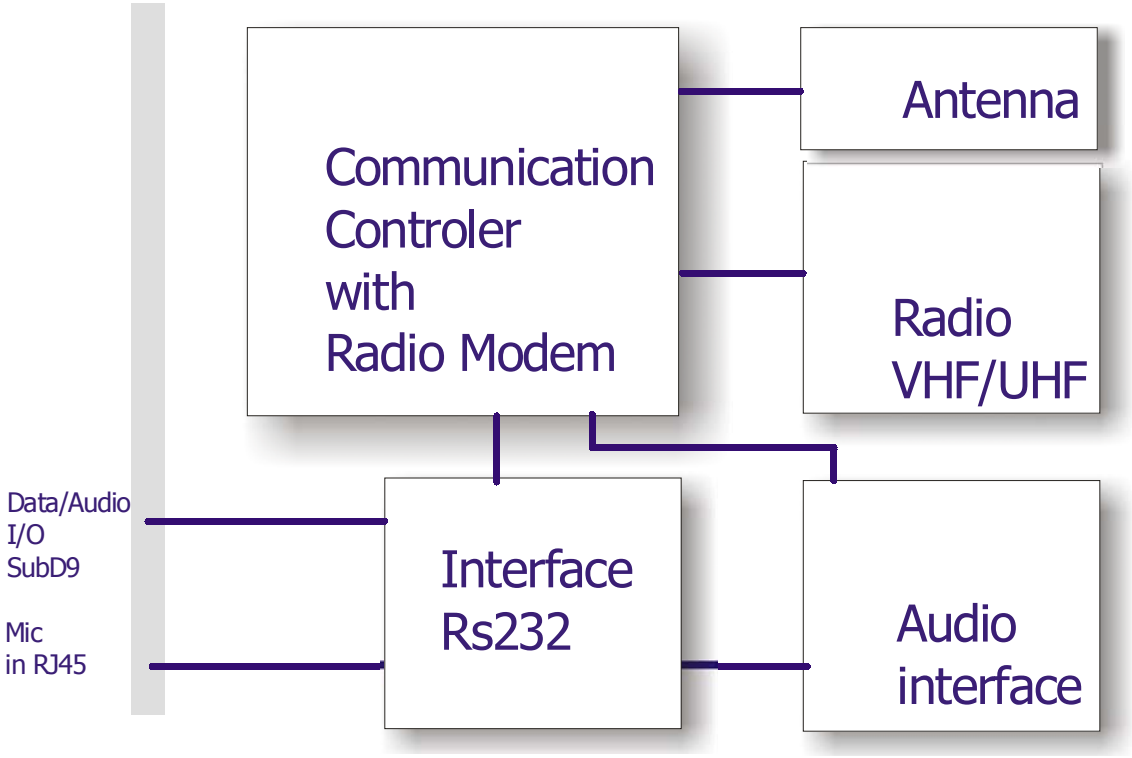
The system requires at the MCU-Site,

a) PC with Control Software
b) RTU Radio Control Equipment

The PC is build from a standard PC-with Windows 2000 operating system.
As an Option the control can be performed by a TOUCH SCREEN.

1.3 RTU- Radio-Equipment

The RTU consists of al Hard and Firmware to Control and monitor the Sirens,
-Individually,
-by Groups
-or as a Total



RTU - Block diagramm

2) Hardware Installation

2.1 Chip card reader

Before the PC-software can be started the TOWITOKO card reader must be installed.

- Connect the reader on COM-port 2
- switch on the PC
- windows 2000 will find a new hardware component
- abort the windows 2000 installation process
- install the provided TOWITOKO driver
- after installation restart the PC
- windows 2000 will find a new chip card reader
- follow the onscreen instructions to complete the installation process
- now the TOWITOKO chip card reader is functional

2.2 Printer

To use a printer with the software install a printer and make it the standard printer for windows applications.
This printer will be automatically used when a Log File is printed by the engineer.

It is also possible to use a network printer as long as it is the standard printer for windows applications.

SiRcom Technical Documentation MCU

PART 2
SOFT WARE

SiRcom Technical Documentation
SiCAS 2000

Software USER Manual

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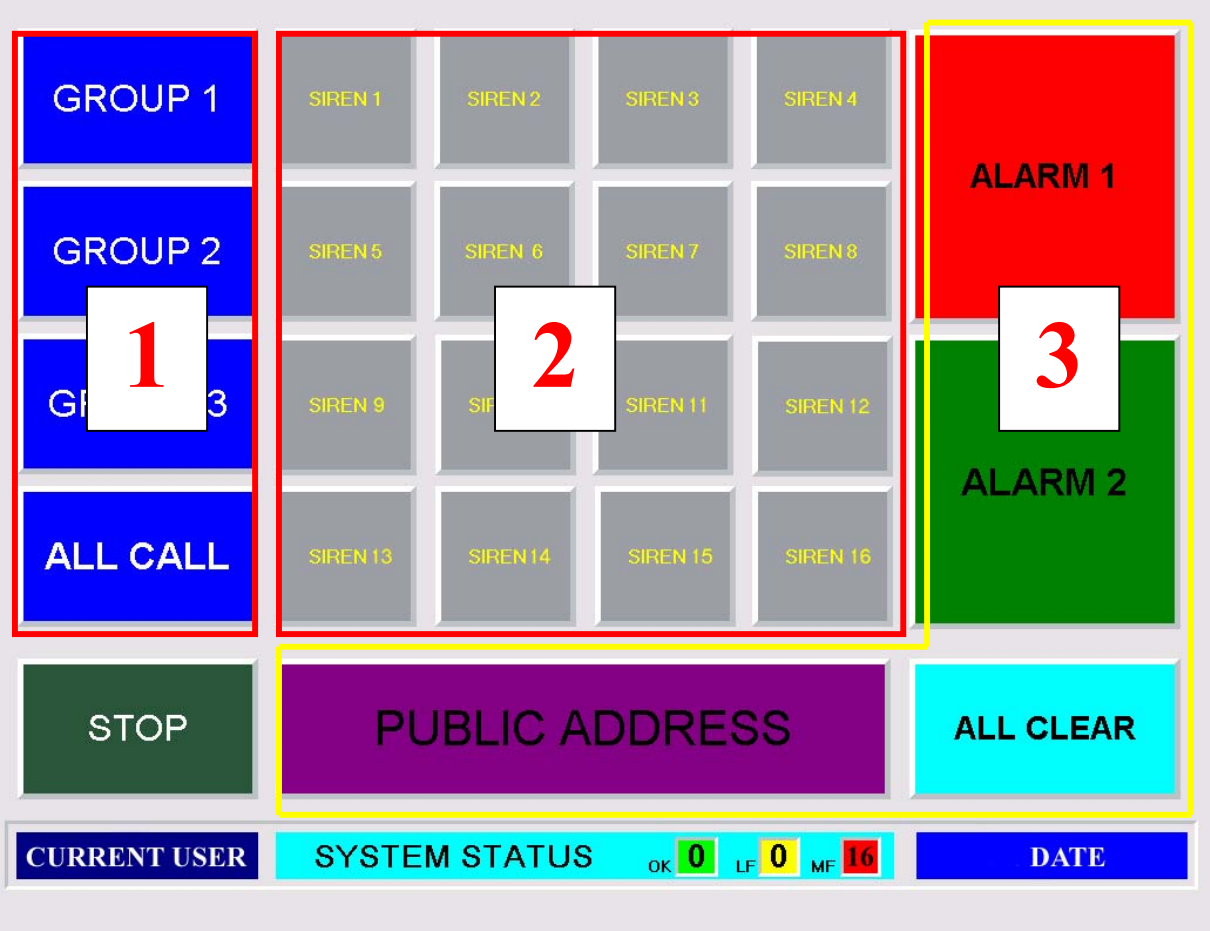
Contents

1) Operating the software

1.1 Activation screen



The front screen is divided in three main operating areas:

1) On the left side four buttons are placed. These buttons select different siren locations included in groups.
   The "ALL CALL" button selects all 16 siren locations.

2) In the middle of the screen 16 siren location buttons are displayed. When a siren location is selected, either individually or as part of a group, the siren location buttons (1-16) change colour to a lighter shade of grey.
   Once a button has been activated and the siren acknowledges the function command then the siren location buttons will change colour to orange.

3) On the right side and under the siren location buttons are four different alarm buttons. When selected, these buttons begin to flash.

At the bottom of the screen the system shows the current user, the system status and the actual date.

If during the start of the software no reader is connected to the PC following screen will be displayed:

with a double click on the caption of the screen the next:

Please ask your administrator for the MAINPIN if needed. If the reader is connected correctly the access to the PC software is granted with an authentification card.

If the reader is connected and no card is inserted in the reader the following screen will be displayed:

This screen remains on top until a correct chip card is inserted in the reader.

1.2 Description of operator button functions

Button No.	Passive Colour	Selected Colour	Active Colour	Button Label/Text
1	Dark Grey	Light Grey	Orange	Siren 1
2	Dark Grey	Light Grey	Orange	Siren 2
3	Dark Grey	Light Grey	Orange	Siren 3
4	Dark Grey	Light Grey	Orange	Siren 4
5	Dark Grey	Light Grey	Orange	Siren 5
6	Dark Grey	Light Grey	Orange	Siren 6
7	Dark Grey	Light Grey	Orange	Siren 7
8	Dark Grey	Light Grey	Orange	Siren 8
9	Dark Grey	Light Grey	Orange	Siren 9
10	Dark Grey	Light Grey	Orange	Siren 10
11	Dark Grey	Light Grey	Orange	Siren 11
12	Dark Grey	Light Grey	Orange	Siren 12
13	Dark Grey	Light Grey	Orange	Siren 13
14	Dark Grey	Light Grey	Orange	Siren 14
15	Dark Grey	Light Grey	Orange	Siren 15
16	Dark Grey	Light Grey	Orange	Siren 16
17	Blue	Orange	Orange	Group 1
18	Blue	Orange	Orange	Group 2
19	Blue	Orange	Orange	Group 3
20	Blue	Orange	Orange	All Call
21	Dark Green	Yellow	Yellow	Stop
22	Red	Flashing Red	Flashing Red	Alarm 1
23	Mid Green	Flashing Mid Green	Flashing Mid Green	Alarm 2
24	Turquoise	Flashing Turquoise	Flashing Turquoise	All clear
25	Purple	Flashing Purple	Flashing Purple	Public Address

Buttons 1 - 16 Inclusive (Siren 1 to 16)

Selects a single siren location (address)

Button 17 (Group1)

Selects the Group 1 comprising locations of presented buttons.

Button 18 (Group 2)

Selects the Group 1 comprising locations of presented buttons.

Button 19 (Group 3)

Selects the Group 1 comprising locations of presented buttons.

Button 20 (All Call)

Selects All Call Group comprising locations of buttons 1 - 16 inclusive.

Button 21 (STOP)

Cancels running alarms and resets the system operations screen to its passive condition.

Button 22 (Alarm 1)

Activates Alarm 1 siren tone function for the selected locations/groups.
**** See special functions****

Button 23 (Alarm 2)

Activates the Alarm 2 siren tone function for the selected locations/groups.
****See special functions****

Button 24 (All Clear)

Activates the All clear function for the selected locations/groups.
****See special functions****

Button 25 (Public Address)

Activates the Public Address function for the selected locations/groups utilising a switch able desk microphone.
****See special functions****

1.3 Special Functions of Buttons

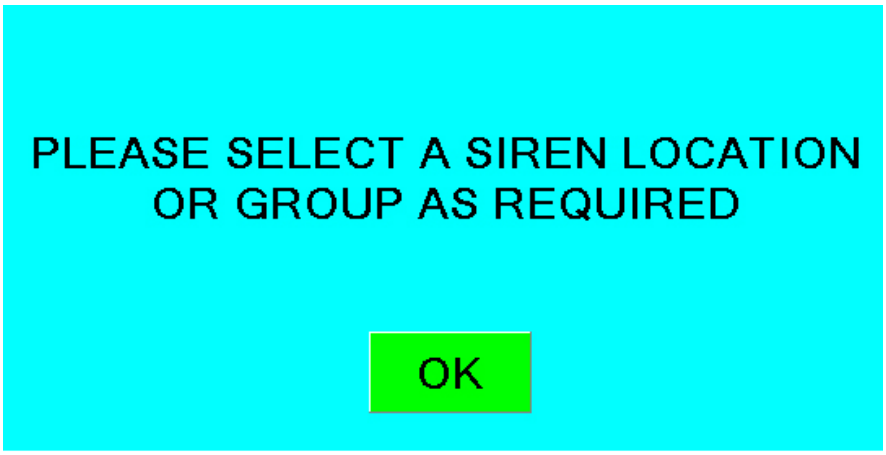
Button 22 (Alarm 1)

A) Causes the prompt

If **YES** Alarm 1 is activated for a predefined period of time.

If **NO** Then all functions reset to their passive condition.

A) If Button 22 (Alarm 1) is selected before any siren locations or groups are selected then the following prompt will be displayed



OK = Resets the system operations screen to its passive condition.

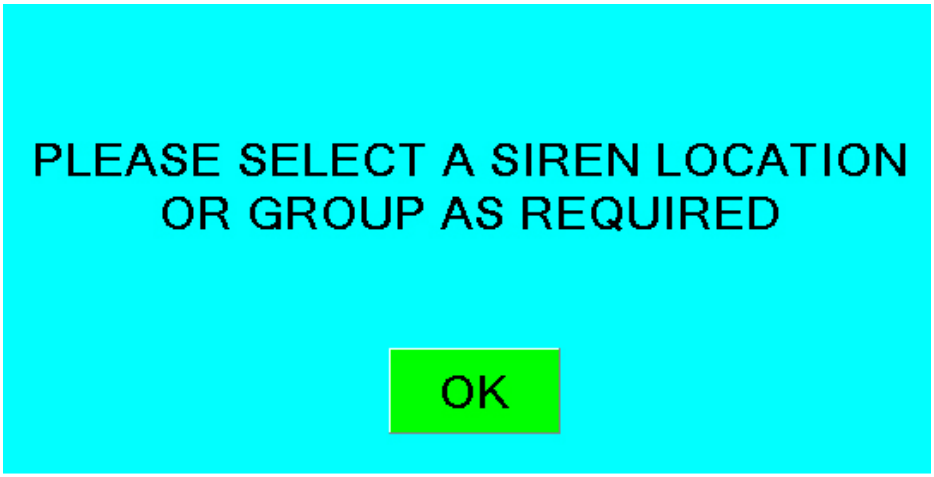
Button 23 (Alarm 2)

A) Causes the prompt

If **YES** Alarm 2 is activated for a predefined period of time.

If **NO** Then all functions reset to their passive condition.

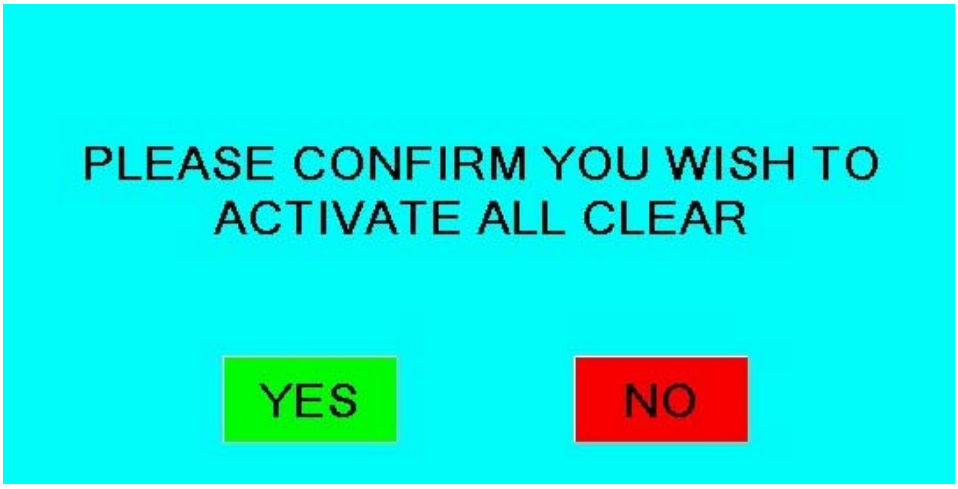
A) If Button 23 (Alarm 2) is selected before any siren locations or groups are selected then the following prompt will be displayed



OK = Resets the system operations screen to its passive condition.

Button 24 (All Clear)

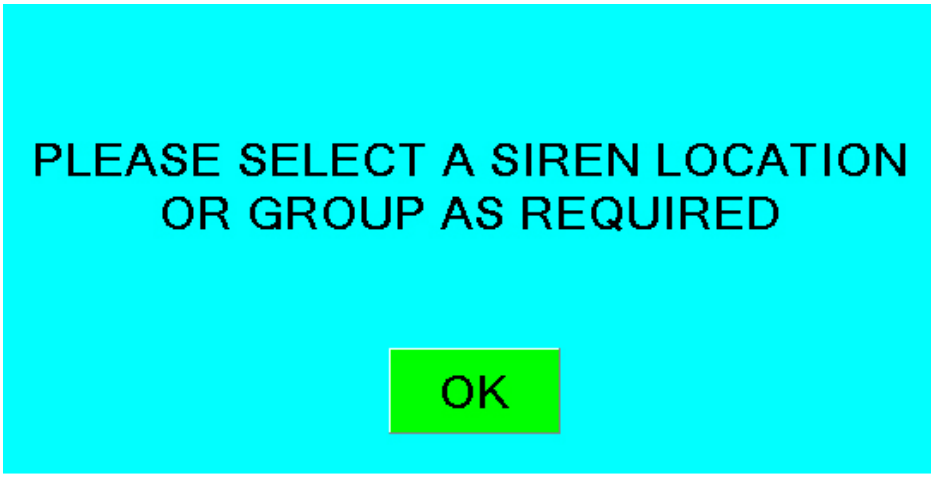
A) Causes the prompt



If **YES** Alarm 2 is activated for a predefined period of time.

If **NO** Then all functions reset to their passive condition

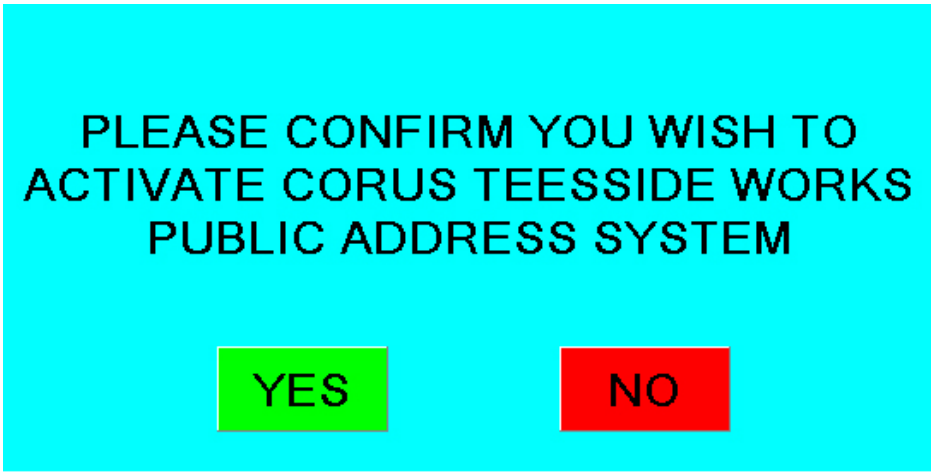
A) If Button 24 (All clear) is selected before any siren locations or groups are selected then the following prompt will be displayed



OK = Resets the system operations screen to its passive condition.

Button 25 (Public Address)

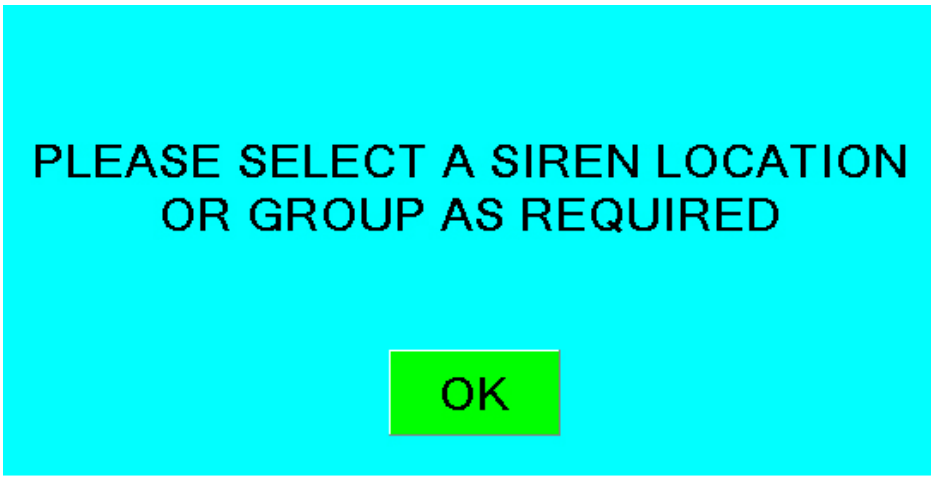
A) Causes the prompt



If **YES** Then the Public Address System will be activated. (Utilising a switched microphone)

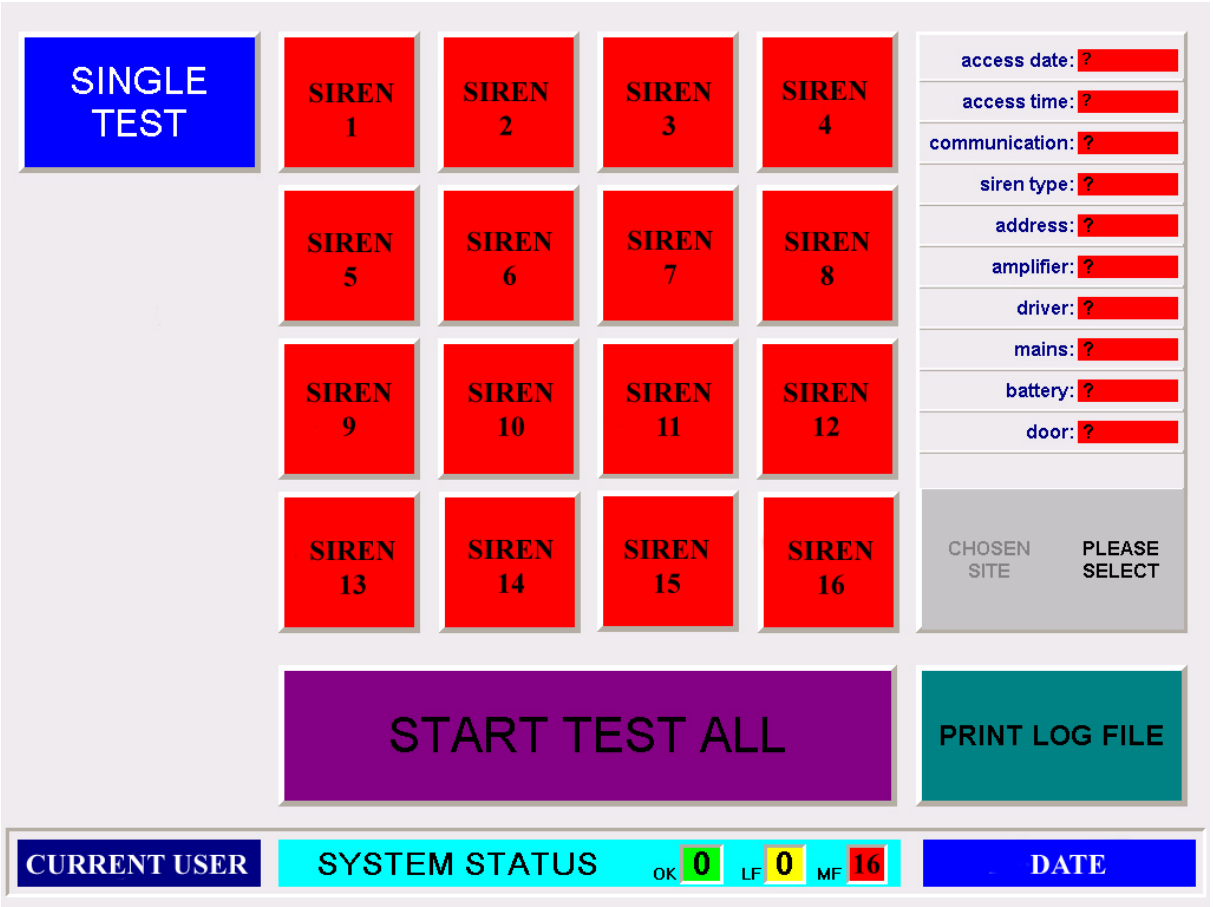
If **NO** Then all functions reset to their passive condition

A) If Button 25 (Public Address) is selected before any siren locations or groups are selected then the following prompt will be displayed



OK = Resets the system operations screen to its passive condition.

1.4 Test screen



The test screen is similar to the front screen.
The 16 active siren location buttons are placed in the middle of the screen.
Right besides these buttons a detail window is positioned.
In this window all details about the selected siren are displayed.

In the test screen the engineer is able to make two tests:

- TEST SINGLE = only the selected siren will be tested
- TEST ALL = all sirens will be tested

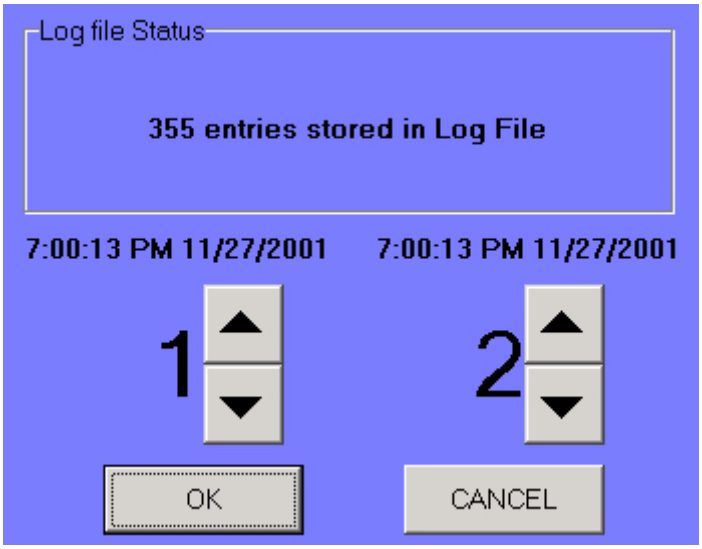
After a test has been performed the siren location buttons will change their colours according to the system status „Traffic Light“ at the bottom of the screen.

Green = everything is OK, siren functional
Yellow = a minor failure was detected, siren is still functional
Red = a major failure was detected, siren is not functional

By selecting a siren location button a detailed information is displayed in the detail window.

1.5 Log file

Under the detail window the PRINT LOG FILE button is placed.
With this function it is possible to print LOG entries.
LOG entries are stored after every test performed by the engineer or the automatic hourly and daily test and after every command sent out to the siren locations.



The engineer can select a specified number of lines to be printed.
At the top of the LOG FILE screen the actual number of entries is shown. Directly above the line selection arrows the screen shows the time and date of the selected line.

The PC-software creates a new LOG FILE every month and automatically stores the old LOG FILE on hard disk in a separate directory.
The old LOG FILE's are stored in following format: "*Name(month. year)*".
The actual LOG FILE is called: "*Name. log*"

1.6 Automatic test's

The system performs two different automatic tests.

The communication is tested every 60 minutes (for example at 10:30, 11:30, 12:30) by station A and the siren locations report their communication status to both stations (A&B).

A silent test is performed every 24 hours (always at 23:30) also by station A and all siren locations report their status to both stations.

The automatic tests are only started with "OPERATOR A" chip card inserted.
This procedure is necessary to avoid radio signal collisions between station A and station B.

The test results are reported to both stations and shown on the system status traffic light at the bottom of the screen.
Faults like mains supply failure or low battery voltage are displayed on a separate window overlaying the operations screen.

If station B does not receive a report on communication test after 130 minutes a prompt is opened on this station saying "no report on communication test"

After the first start of the software the ENGINEER has to make a silent test to get the newest system status.

The software uses the date and time settings from the PC-BIOS. Please check the BIOS for correct time and date settings.

2)Hardware Installation

2.1 Chip card reader

Before the PC-software can be started the TOWITOKO card reader must be installed.

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- switch on the PC
- windows 2000 will find a new hardware component
- abort the windows 2000 installation process
- install the provided TOWITOKO driver
- after installation restart the PC
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- follow the onscreen instructions to complete the installation process
- now the TOWITOKO chip card reader is functional

2.2 Printer

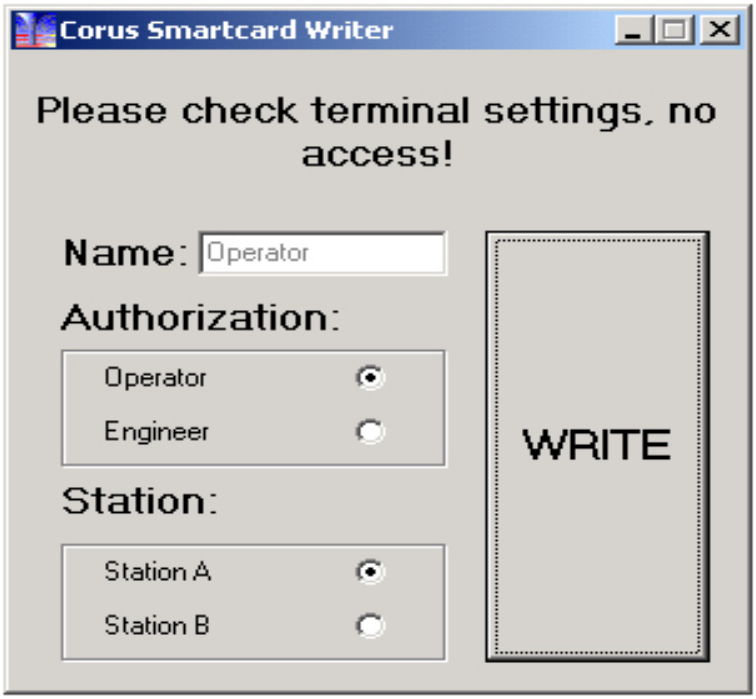
To use a printer with the software install a printer and make it the standard printer for windows applications.
This printer will be automatically used when a Log File is printed by the engineer.

It is also possible to use a network printer as long as it is the standard printer for windows applications.

3)Writing chip cards

Please note: Do not install the SmartcardWriter.exe on the same computer as SiCAS-Control!

1) Connect the TOWITOKO chip card reader on COM Port 2.
2) Insert a chip card
3) Open the provided Smartcard Writer software provided by SiRcom
4) After starting this program will automatically search the chip card reader



5) Select the desired authorization and station number
6) Press WRITE button
7) Chip card is ready for use

The systems knows two different chip cards:

Operator card:	the operator is able to make alarms and test alarms to test the functionality of the system.

The system knows two different operators:

Operator A:	with this card inserted the system performs automatic test
Operator B:	with this card inserted the system does not run the automatic tests

This procedure is used to avoid separate the two PC control stations.

Engineer card:	the engineer is able to run several tests to assure the functionality of the hardware.

SiRcom

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