FREQUENTIS

Voice Communication System

VCS 3020X Rel. 4.1

Short User Manual

04A28 E502.10

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1	Procedure step number. Press the key or take another action.
➡	Action leads to a reaction.
or	Introduces an alternative action or reaction.
=	Stands for, equals.
♩	Symbol for incoming chime tone (for details on all other tones refer to the User Manual VCS 3020X Rel. 4.1, Doc.No. 04A28 E501).
♩WARN	Symbol for special tones (for details refer to the User Manual VCS 3020X Rel. 4.1).
	Press PTT, release PTT.
CHIME Yes	Key text/names (in this example for a function key or sub-menu key).
CONF	Key is unavailable for activation.
CONF	Key is idle and available for activation.
CONF	Key is transient, i.e. blinking between available and active.
CONF	Key is active.
40	Messages on a display.

1 Are your headset/handset and/or your microphone connected to the plug-in panel?

2 Are incoming telephone calls signalled? Check whether `CHIME` is active or idle - it turns the acoustic indication on and off.

3 Can telephone communication be heard via headset or loudspeaker? Check whether `DAI LS`, `MASTER LS`, `GG LS` are active or idle - they route audio either to loudspeaker or headset.

4 Can radio communication be heard via headset or loudspeaker? Check the `LSP` toggle key on the frequency control window. Check if `AG LS` is active or idle - it routes audio either to loudspeaker or headset.

5 Press `PAGE` to scroll cyclically through the pages available on your panel. Scroll through to become familiar with them and see what the operational area looks like.

6 If you have two panels at your operator position, press `SPLIT` to activate split position operation. Works only, if split position is enabled on the TMCS, and at least one headset is connected. Result: there is radio and telephone operation on one panel, and telephone operation with radio status indication on the other.

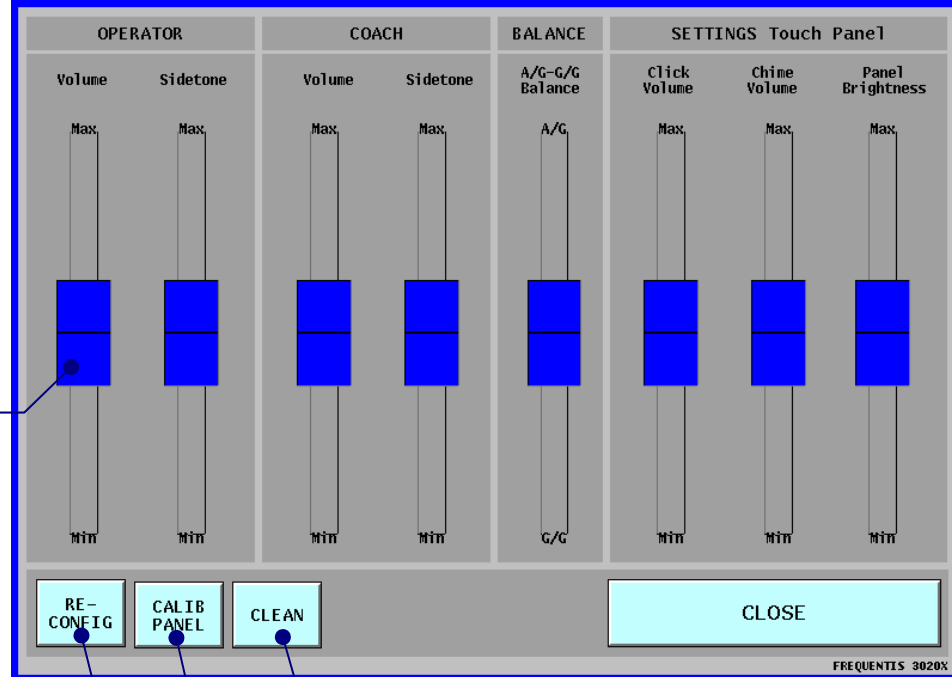7 Press `SET` to open the settings window for brightness and volume control.

Main Page

Display area

Function keys

Radio keys

Telephone keys

Select a DA-layer or the phone book

End key

Function keys

Incoming call queue & active call display
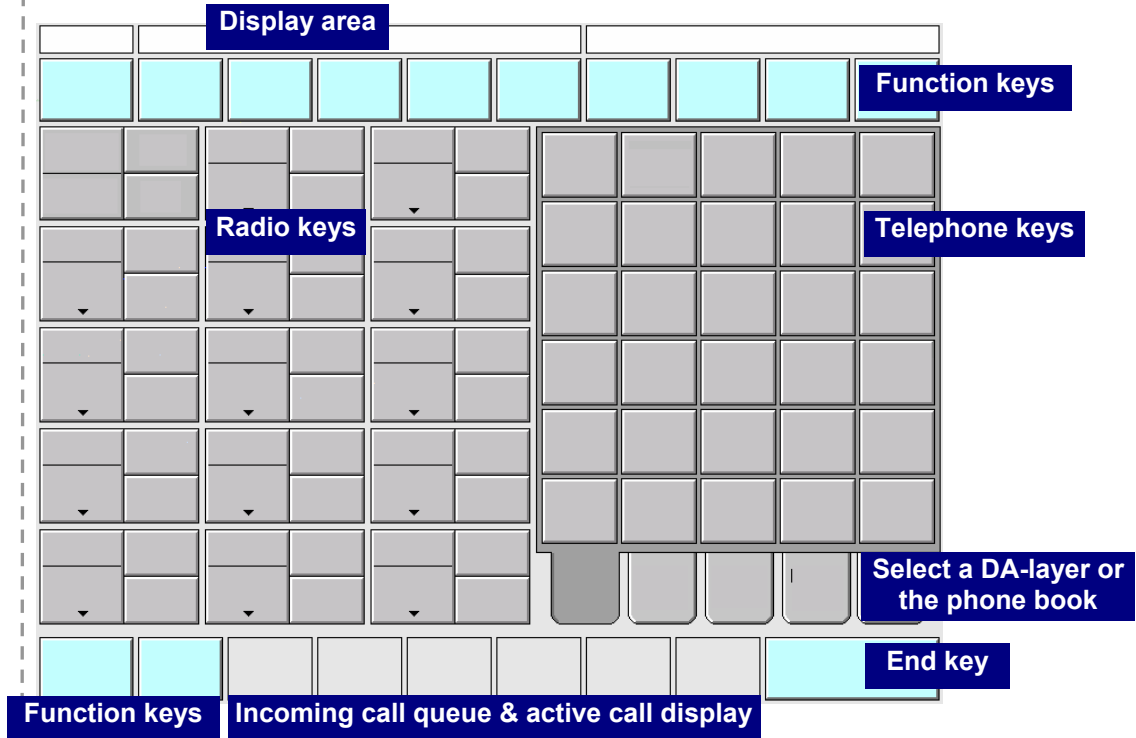
Main Page

On the main page press $\boxed{\text{SET}}$ to open the settings window.

Settings Window

OPERATOR		COACH		BALANCE	SETTINGS Touch Panel		
Volume	Sidetone	Volume	Sidetone	A/G-G/G Balance	Click Volume	Chime Volume	Panel Brightness
Max	Max	Max	Max	A/G	Max	Max	Max
Min	Min	Min	Min	G/G	Min	Min	Min

RE-CONFIG   CALIB PANEL   CLEAN

CLOSE

FREQUENTIS 3020X

Move sliders to adjust:
- volume levels
- A/G-G/G-balance
- panel brightness

Clean the touch panel screen.

Panel calibration carried out by maintenance staff.

Accept new configurations or reset original ones.

Main Page

Alphabetical list of function keys:

`AG HS+LS` **AIR/GROUND LOUDSPEAKER:** for routing all A/G-audio to a loudspeaker (toggle between headset and loudspeaker)

`ACTIVE ROLE` Key carries the NAME of the **ACTIVE ROLE**; for accepting a new layout/role during panel reconfiguration

`CCB` **CHIME TONE SINGLE OR STEADY:** for toggling between single and steady chime (default: CCB active)

`CHIME` **CHIME:** for toggling the chime for incoming call indication between ON/OFF

`CLIR` **CLIR:** for activating CLIR, i.e. inhibit your identity during an active ISDN-call

`CONF` **CONFERENCE:** for telephone conference calls

`CUT IN` **CUT-IN:** for monitoring and interrupting calls on other operator positions (supervisors only)

`DAI LS` **DIRECT ACCESS INTERCOM LOUDSPEAKER:** for routing DAI-audio to a loudspeaker (toggle between headset and loudspeaker)

`DIAL PAD` **DIAL PAD:** for opening the dial pad

`DIV` **DIVERSION:** for diverting all telephone calls to another operator position

`DOOR` **DOOR:** for activating the door opener

`DROP` **DROP:** for releasing the last party in a conference call

FAST COUPLING: for coupling all frequencies in Tx-mode with one touch

FREQUENCY FORWARDING: for forwarding frequencies to another operator position

FREQUENCY INTERCOM: for direct communication to all positions having frequencies in traffic or monitor mode

GROUND/GROUND LOUDSPEAKER: for routing G/G-audio to loudspeaker (toggle between headset and loudspeaker)

HOLD: for holding active telephone calls

HOOK FLASH SIGNAL: for sending a hook flash signal to an external open line

LESS: for switching from the second layer of function keys back to the first layer

MAN RING: for sending a ringing signal for a defined period

MASTER LOUDSPEAKER: for routing all audio to a loudspeaker (toggle between headset and loudspeaker)

MONITORING: for position monitoring

MORE: for switching to the second row of function keys

LOUDSPEAKER OVERRIDE: for overriding the automatic transfer of A/G-audio to LS during G/G-communication

PAGE: for scrolling through the panel pages

PICK-UP: for picking up pending calls from other operator positions

PLAY BACK: for opening the play-back window

POSITION CONFIDENCE CHECK: for activating a hardware test of the operator position

PRIORITY: for increasing the priority of a telephone call

PRIVACY MODE: for protecting supervisor positions from monitoring

RELIEF BRIEFING: for activating a two-way communication between coach and trainee

RUNWAY INCURSION: for toggling the function between ON and OFF

SETTINGS window: for opening the setting windows

SPLIT POSITION: for splitting an operator position for separate A/G- and G/G-use

SUBSTITUTE: for substituting another operator position, i.e. taking over incoming calls from there

TRANSFER: for transferring an active call to another party

WIRELESS: for answering calls with your wireless telephone while you are not at your operator position

END: for terminating telephone calls and certain functions

Key is unavailable for activation.

DA:
Direct Access

Key is idle, and available for activation.

Key is deselected; there is no acoustic indication for incoming calls.

Symbol shows that interface for wireless telephone call activated, incoming calls are redirected to wireless phone.

Symbol shows that you act as substitute for this operator position.

Key is blinking between idle and active; shows an incoming direct access call (DA) on a DA-key, or in the incoming call queue (configurable).

Background active; key shows an active direct access call (DA).

CA:
Common Answer

Key is blinking between idle and active; shows an incoming common answer call (CA) in the incoming call queue.

Background active; key shows an active common answer call (CA).

CD:
call display

Background active; key shows an active IA-call on the active call display key (CD).

DA	Background hold; key shows a held direct access call (DA).
DA	Frame steady, background active; key shows an outgoing direct access call (DA).
DA	Frame blinking, background idle; key shows that the called party is busy.
DA	Frame steady, background idle; key shows that the used line is busy.
DA	Frame and background blinking; key shows that this party is selected for transfer.
DA	Background blinking; key shows that this position is out-of-service.
DA	Frame blinking, background blinking; key shows an incoming priority call.
DA	Frame steady orange, background active; key shows that position monitoring is active.
DA	Frame blinking, background blinking; key shows that cut-in call is active.
DA	Background red; key shows that a monitored operator position is muted due to a supervisor's cut-in call.
DA	Background blinking; key shows that an operator at a muted position tried to set up a hotline-call, which is not possible in this state

Direct Access

Direct Access Calls and **Direct Access Intercom Calls**

120 DA-keys on four layers.

Key to open the phone book.

| Phone 1 | Phone 2 | Phone 3 | Phone 4 | Phone Book |

Four keys to open the DA-layers.
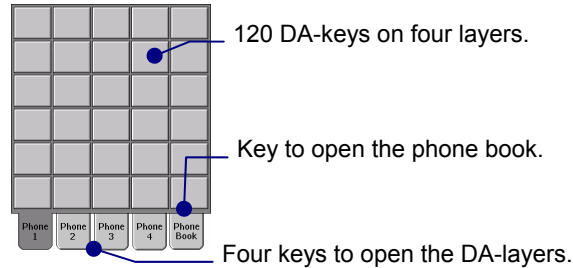
Incoming DA-calls are indicated:

- on the DA-layers
- on the layer selection keys
- on the CA-keys of the incoming call queue (if configured)

Set up an outgoing DA-call:
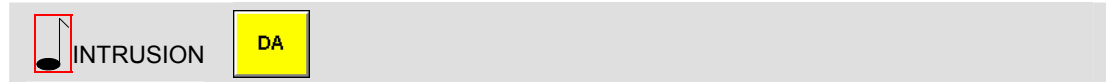
`1` `DA` ➡ `DA` ➡ `DA`   `2` `E N D`

Answer an incoming DA-call:

♪ `1` `DA` ➡ `DA`   `2` `E N D`

Set up an outgoing hotline call:

`1` `DA` ➡ keep pressed `DA`

Answer an incoming hotline call (intercom):

♪ INTRUSION `DA`

Indirect Access
(Serial Dialling)

Indirect Access: On the main page press DIAL PAD to open the dial pad.

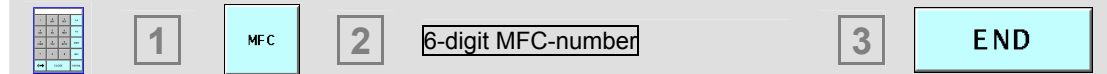On the main page press Phone Book to open the phone book.

Call types

Redial

Move the dial pad
on the touch panel
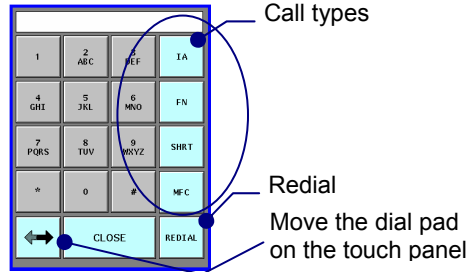
Incoming CA-calls are indicated:

● on the CA-keys in the incoming call queue
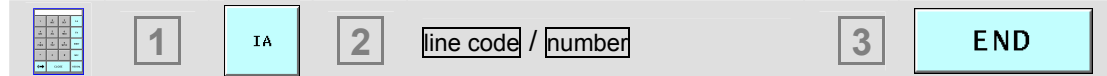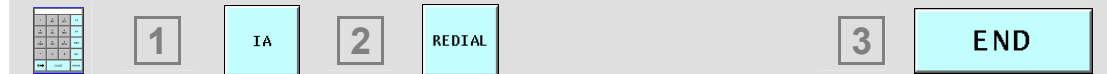
Set up an IA-call:		**1**	IA	**2**	line code / number	**3**	END
Set up an MFC-call:		**1**	MFC	**2**	6-digit MFC-number	**3**	END
Redial last number:		**1**	IA	**2**	REDIAL	**3**	END
Answer incoming CA-call:		**1**	CA ➡ IA			**2**	END
Set up phone book call:	Phone Book	**1**	DEFG	**2**	target party	**3** CALL **4**	END
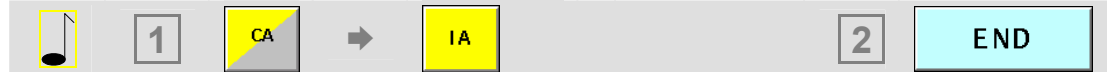
Priority Calls

Set up a priority call

`1` `PRIO` `2` `DA` or ⌨ `3` `END`

Incoming priority call on a DA-key (*with call intrusion*):

♪ INTRUSION `DA` or `CA`

Answer an incoming DA-priority call *without call intrusion*:

♪ `1` `DA` ➡ `DA` `2` `END`

Answer an incoming CA-priority call *without call intrusion*:

♪ `1` `CA` ➡ `IA` `2` `END`

Short Code Dialling

Set up a short call:

⌨ `1` `SHRT` ➡ `40` `2` number `3` `END`

Function Codes

Activate a function:

⌨ `1` `FN` ➡ `50` `2` 4-digit access code

Frequency/Radio Objects

Non-coverage mode   Coverage mode

Without and with radio
remote control:

Open the frequency
control window:

Frequency Control Windows

Without and with radio
remote control:

With radio remote
control

and

volume control per
frequency:

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On the frequency
control window:

Delete frequencies:

| 1 | DEL | ➡ | 123. 567 | 2 | 123. 567 | ➡ | |

Add frequencies:

| 1 | ADD | 2 | | 3 | ADD | ➡ | 123. 456 |
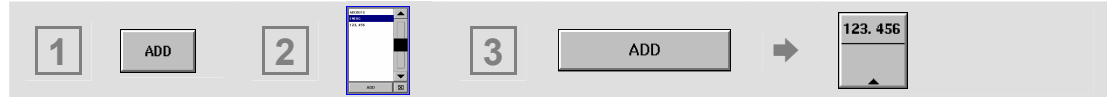
Cancel delete
frequencies,
cancel add
frequencies:

| 1 | CANCEL DEL | ➡ | 123. 456 / Rx 1234 / Tx 1234 | | 1 | ⊠ | or | 123. 456 | ➡ | |

Select loudspeaker:

| 1 | LSP 1 2 OFF |

Main/standby (Rx- or
Tx-mode required):

| 1 | M S | ➡ | M S | Rx 1234 / Tx 1234 | or | Rx 1234 / Tx 1234 |

Couple frequencies
(Tx-mode required):

| 1 | COUPLE ON OFF | ➡ | COUPLE ON OFF | ➡ | 123. 456 / Rx 1234 / Tx 1234 |

Terminate coupling:

| 1 | COUPLE ON OFF | or | Tx 1234 | or | Rx 1234 |

Indications in idle mode:	aircraft-initiated call:	controller-initiated call:
Set frequency to monitor mode:	**1**	aircraft-initiated call:
Set frequency to traffic mode:	**1**	aircraft-initiated call:
Transmit on this frequency:	**1**	or
PTT-lockout:	**1** → WARN	**2**
Out-of-service indication:	or	**1**
Transmit on emergency frequency:	**1**	keep pressed! →
Status indications when two radio pages are used:	status indication	in detail
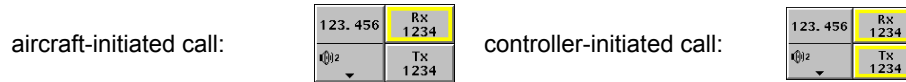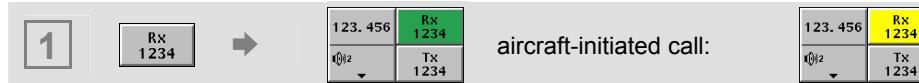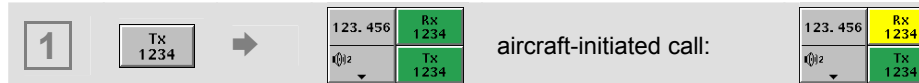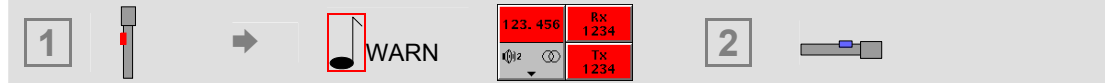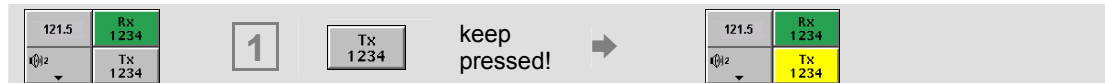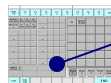
Radio remote control and number pad:

Open number pad.

Delete digit.

Accept entry, close window.

Cancel entry, close window.

Enter a decimal point.

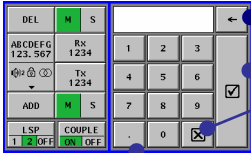| 1 | Mode AM FM | = | toggle between **AM- and FM**-mode |
1	Squelch ON OFF	=	toggle between **SQU ON and OFF**
1	SQ Level L M H	=	toggle **SQU detection** between LOW, MEDIUM, and HIGH
1	Tx Power L M H	=	toggle **Tx-output power** between LOW, MEDIUM, and HIGH
1	Remote M S	=	toggle between **main and standby**
1	Crypto ON OFF	=	toggle **encryption mode** between ON and OFF
1	Crypto Mode99	➡	2	enter number to select **crypto mode** (max. 2 digits)
1	FRQ Set	➡	2	enter number to select **frequency** (max. 7 digits)
1	CH Set	➡	2	enter number to select **channel** (max. 2. digits)
1	Scan ON OFF	=	toggle **scan mode** between ON and OFF

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On the main page, open play-back window, and close window again:	**1** PLAY BACK ➡	**2** ☒
Navigate and select play-back record:	**1** (scrollbar) **2**	Rx 12:33:56 FREQ 01 123.456
Start and stop play-back:	**1** ▶ **or** ▶| **2** ■	
Delete all records:	**1** DELETE ALL ➡ Delete all records? [Yes] [No]	**2** Yes **or** No
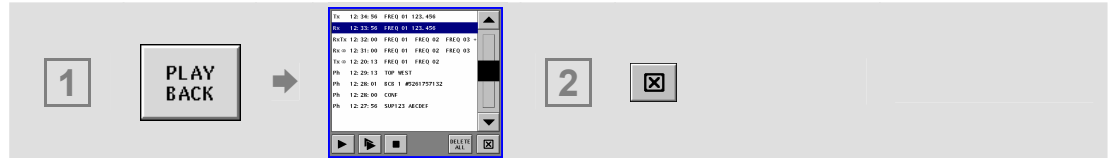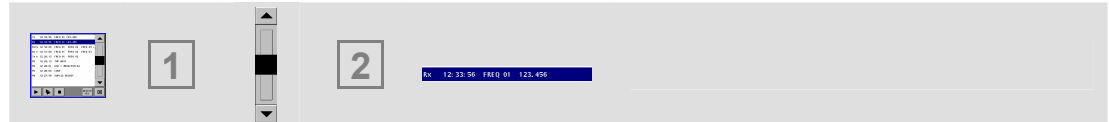
Record structure:

Type:

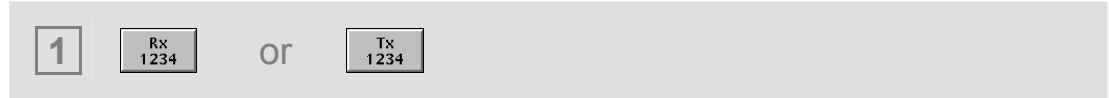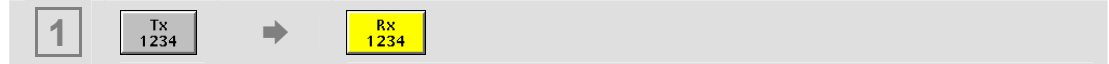|	
Tx	- Transmission
Rx	- Reception (background shows entry is selected)
RTx	- Reception and transmission
RTx ⊙⊙	- Reception and transmission in a coupling group
Rx ⊙⊙	- Reception in a coupling group
Tx ⊙⊙	- Transmission in a coupling group
Ph	- Phone call

Time:
record start time

ID:
- Frequency
- Name/number of connected telephone party
- CONF if the telephone call was a master conference

Manual selection of best receiver and/or transmitter.

| 1 | Rx 1234 | or | Tx 1234 |

BSS/receiver voting:

| 1 | Tx 1234 | ➡ | Rx 1234 |

Tx follows best receiver:

BSS ➡ Rx 1234 ➡ Tx 1234 | 1 | Tx 1234 | **if necessary**

Tx follows best receiver with default Tx:

- Define default Tx:

| 1 | Tx 1234 |

- BSS defines best Rx, Tx follows:

| 123.456 Rx1 LOC1 Rx2 LOC2 Rx3 LOC3 / Tx1 LOC1 Tx2 LOC2 Tx3 LOC3 | ➡ | 123.456 Rx1 LOC1 Rx2 LOC2 Rx3 LOC3 / Tx1 LOC1 Tx2 LOC2 Tx3 LOC3 | ➡ | 123.456 Rx1 LOC1 Rx2 LOC2 Rx3 LOC3 / Tx1 LOC1 Tx2 LOC2 Tx3 LOC3 |

- Automatic reset to default Tx:

| 123.456 Rx1 LOC1 Rx2 LOC2 Rx3 LOC3 / Tx1 LOC1 Tx2 LOC2 Tx3 LOC3 | 1 | Tx 1234 | **if necessary** |

Stuck PTT:

| 1 | ≥ 1 min | ➡ | **Stuck PTT Error** | 2 |

This Short User Manual for the voice communication systems VCS 3020X Rel. 4.1 gives an overview of the touch panel layout, and the most important functions of these user interfaces. For a complete description of the user interface, its features and functions, refer to the User Manual for the VCS 3020X Rel. 4.1 (04A28 E502), delivered with your voice communication system. All warnings and recommendations contained in the User Manual mentioned above are valid.

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This document is released electronically.