USERS MANUAL FOR PHONTECH 6200 TERMINALS

Phontech 6200

JOTRON

List of abbreviations and definitions

The following symbols are used to describe the operating instructions:

S   System and/or station status

U   The user actions

•   Activity in the system or station

CONFIG: This symbol indicates that the functionality is dependant of the configuration settings and refers to the Phontech 6200 configuration description.

6114:   This symbol identifies the functionality only to apply to the unit type within the frame.

~~6114~~:   This symbol identifies the functionality to apply to all unit types except the one within the frame.

61xx: This symbol identifies the functionality to apply to all units in the 61xx range.

ACT	:	On hook / off hook status
Led	:	Light emitting diode – information lamp
P key	:	Programming key
F key	:	Function key
IU	:	Intercom Unit
POTS	:	Plain Old Telephone Service = analogue DTMF telephones
Snom	:	Snom300 IP telephones
PTT	:	Push To Talk
VOL	:	Volume (control)
PABX	:	Private Automatic Branch Exchange

Amendment Record

NO	INIT	DATE	CHAPTERS	VERSION	REASON FOR CHANGE
0	TH	24.05.13	All	A	Initial release
1	KAT	22.10.14	4	B	Corrected procedures for special numbers
2	KAT	27.06.15	4	C	Added to the special numbers section, fixed chapter numbering.
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SAFETY INSTRUCTIONS

⚠ WARNING

ELECTRICAL SHOCK HAZARD
Do not open the equipment.

Only qualified personnel should work inside the equipment.

ATTENTION

OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

This equipment contains CMOS integrated circuits. Observe handling precautions to avoid static discharges which may damage these devices.

TABLE OF CONTENTS

1. SYSTEM OVERVIEW

The Phontech 6200 Integrated Communication System is a digital communication system meeting all aspects of internal and external communication, information exchange onboard vessels, offshore installations and to/from onshore operation centers.

Based on the latest computer technology, it´s flexible configuration is a cost effective solution for Intercom, Telephone, Public Address, Alarm, Loudhailing and Entertainment. The modern architecture allows for network connection including cascading, remote service and interface to/ from other IP based systems and components.

Several new functions have been introduced including Direct Inward System Access and Distributed Universal Number Discovery. Phontech 6200 is compatible with all existing DICS stations available. Thus, Phontech 6200 offer a unique combination of analogue, digital and IP based communication terminals.

2. SYSTEM INFORMATION TONES:

The system will use some different information tones in different situations:

Tone name:	Graphic:	Tone description:	Purpose:
Dial tone	▬▬▬▬▬▬	425Hz: Continuous	Ready to receive dialling
Call tone	▬ ▬	425Hz: 1sec. ON - 4sec. OFF	Calling other extension
Busy tone	▬ ▬ ▬ ▬ ▬ ▬ ▬	425Hz: 0.5 sec. ON - 0.5sec. OFF	The called extension is busy
Congestion	▪▪▪▪▪▪▪▪▪▪▪▪▪▪	425Hz: 0.2sec. ON - 0.2 sec. OFF	Illegal action (i.e. calling an extension without any intercom unit connected)

3. CONFIGURATION DEPENDANT FUNCTIONALITY:

3.1 FLEXIBLE NUMBERING PLAN:

The system can have numbers ranging from 1 to 36 digits, 0-9 (CONFIG). The length of numbers can be mixed freely, but overlapping numbers (143 and 1435) will introduce a short delay on accepting the shorter number.

3.2 CALL GROUP:

A call group is a predefined selection of extensions (CONFIG) that will ring simultaneously when called. The call group can be integrated into the normal numbering plan. The first extension within the group to activate ("unhook") will reply to the call. Already busy extensions will not be affected or affect the functionality of the other members of the call group.
When the call is replied to, and the ringing stops, all other group members will operate as normal.

3.3 CALL HUNTING GROUP:

A call hunting group is a predefined selection of extensions (CONFIG) that will ring one after the other when the group is called. The call hunting group can be integrated into the normal numbering plan. When an extension answers the call, the hunting stops. Already busy extensions will not be affected or affect the functionality of the other members of the call hunting group. It is worth noting that a call group can be a member of a call hunting group and vice versa.

3.4 PAGING GROUP ~~POTS~~:

A paging group is a predefined selection of extensions and external PA-interfaces (CONFIG). Preoccupied members of the group will <u>not</u> be paged, and the paging party will not be notified of any missing members.
It is not possible to define POT members into a paging group, as these are not equipped with the paging facility.

3.5 ALERT GROUP ~~POTS~~:

An alert group is a predefined selection of extensions and external PA-interfaces (CONFIG). An alert group allow you to be notified with a short beep when certain events happen.

It is not possible to define POT members into an alert group, as these are not equipped with the paging facility.

3.6 INTRUSION:

This function must be enabled as a part of "Service Classes" (CONFIG). It will override busy subscribers and subscribers with PRIVACY enabled.

3.7 SPEED DIAL:

Speed dial is locally programmable per IU, and uses the buttons 0-9 as memory locations. This programming is stored in the respective extension in the system and will not have to be reprogrammed to any replacement IU.

POTS speed dial button is a local facility (not system controlled), dependant of the specific telephone instrument.

Snom units can access the full extension list through their directory function. (Limited to 100 extensions)

3.8 CONFERENCE: (CONFIG)

The conference function uses "MeetMe" rooms. When enabled, a globally configured extension is the entry point to the conference rooms, where the user is asked to select a specific conference room. All parties must go through this entry point and select the same room.

4. SPECIAL FUNCTIONS OVERVIEW:

Special functions are available from POTS, IU and Snom units.
The following list is an overview of the special functions.

Entry Code	Name	Description
21<Ext>	Call forwarding	Forwards all incoming calls to the requested extension number **Ext**.
#21	Clear call forwarding	Clears any configured call forwarding on the phone.
*26	Privacy, Do Not Disturb	Enabled Do Not Disturb on the phone. Incoming calls will not ring, and will be given an error tone instead.
#26	Clear Do Not Disturb	Disabled Do Not Disturb on the phone.
*57	Wake-up call	Performs a Wake-up Call at the requested time. The terminal will ring normally until it is activated (off hook) or automatically cancelled after 3 minutes.
*69	Meet-Me Reply To Paging	If a page group has been configured to allow it, dialling *69 will call the phone that initiated the last paging call in the system.
07<X><Ext>	Set speed dial number	Sets the speed dial number **X** on the calling phone, where **X** is a single digit, to call the given extension **Ext**.
*07<X>	Dial speed dial number	Dials the speed dial number **X** on the calling phone. Must be a single digit and must be preconfigured with *07*.
#07#<X>	Clear speed dial number	Clears the speed dial number **X** on the calling phone.
*080	Who am I / Identification	The system outputs the extension.
*081	Echo test	Listen to yourself.
*082	1kHz, 0dBm	Listen to the 1kHz/1mW reference signal.

5. BASIC OPERATION:

5.1 POTS INDIVIDUAL SERVICES:

The ICS POTS interface supports most available types of analogue DTMF telephones. Because of the multitude of services available in equipment from different manufacturers, please refer to the attached documentation for each telephone.
Example of possible POTS services:

* Loudspeaking telephones
* Wireless telephones
* Speed dial
* Answering machine

5.2 SNOM INDIVIDUAL SERVICES

The Snom 300 telephones have a multitude of custom settings and special functions. These are described in a separate user manual delivered with the each phone. The initial setup of the phone and configuration of system wide special functions is performed automatically the first time it is connected to the Phontech 6200 system.

5.3 PLACE A CALL:

Using the handset:
S   Idle
U   Unhook the handset
*   Dial tone
U   Dial the extension number
*   Call tone
*   ......Conversation
U   Replace the handset

Some POTS has handsfree/speakerphone operation. The required sequence for engaging a speakerphone call must be specified by the POTS manufacturer. When handsfree/speakerphone operation is described in this document, it refers to 61xx intercom units.
In general, when this document says to "Unhook the handset" you can alternatively use the speakerphone mode by pushing the ACT key.

Speakerphone: 61xx
S   Idle
U   Push the **ACT** key
*   Dial tone (loudspeaker)
*   **ACT** led on
U   Dial the extension number
*   Call tone
*   ....Conversation (handsfree)

U   Push the ACT key

•   **ACT** led off

Speakerphone: Snom

S   Idle

U   Dial the extension number

U   Push the √ key

•   Call tone

•   ....Conversation (handsfree)

U   Push the X key to end conversation

5.4   ON HOLD

POTS and 61xx:

•   ......Conversation

U   Activate the **R** or FLASH key (Transfer on Snom)

•   New dial tone

U   Activate the **R** or FLASH key again to resume call on hold

If you go on-hook instead of resuming the call, the call on hold will immediately call back.

Snom:

•   ......Conversation

U   Press the L1 or L2 key that is active (constantly lit)

•   New dial tone, the other L1 or L2 key is lit, the first one is flashing

U   Use the L1 and L2 keys to switch between conversations

U   Press the X key to end the active conversation

5.5   GROUP PAGING:

S   Idle

U   Unhook the handset

•   Dial tone

U   Dial the PAGING GROUP access number (CONFIG)

•   ....Announcement

U   Replace the handset

5.6   INDIVIDUAL PAGING: 61xx

S   Idle

U   Unhook the handset

•   Dial tone

U   Dial the extension number

•   Call tone / extension ringing

U   Press the **PTT** key → INDIVIDUAL PAGING is engaged

- ……Announcement
U   Replace the handset

5.7   TRANSFER A CALL:

- ……Conversation
U   Put call on hold
- New dial tone
U   Dial the new number
- ……Conversation
U   Replace the handset → transfer is performed

5.8   CALL FORWARDING:

S   Idle
U   Unhook the handset
- Dial tone
U   Dial [**21***]
- Tone off, system enters programming mode for CALL FORWARDING
U   Dial the number of the target extension
- Confirmation tone
U   Replace the handset

As long as the extension is forwarded it is still possible to make calls

To clear call forwarding:
S   Idle
U   Unhook the handset
- Dial tone
U   Dial [**#21**]
- Confirmation tone
U   Replace the handset

5.9   INTRUSION: (CONFIG)

The called party is busy in another call:
S   Busy
- A message says to dial [1] to intrude
U   Dial [1]
- The intruding and the called party are connected. The 3rd party is disconnected.
- …….Conversation
U   Replace the handset

5.10 SET / RESET WAKE UP CALL:

Wake up can be activated for a time within the next 24h

S   Idle
U   Unhook the handset
- Dial tone
U   Dial [***57**]
- Tone off, system enters programming mode for WAKE UP
U   Dial 0-9 as: **HHMM**
- Confirmation tone
U   Replace the handset

If the input data is faulty the system replaces the confirmation tone with the barring tone.

To clear wakeup call:
S   Idle
U   Unhook the handset
- Dial tone
U   Dial [**#57**]
- Confirmation tone
U   Replace the handset

5.11 WAKE UP CALL:

The wake up call is automatically executed by the system at the requested time. The telephone unit will ring normally until the call is answered (Off hook), or for 3 minutes before automatically being turned off.

- Wake up Call
U   Unhook the handset
- Wake Up Tone
U   Replace the handset

5.12 WHO AM I / IDENTIFICATION:

The WHO AM I / IDENTIFICATION function is a way to read the extension number from each line in the system. It is very useful during installation to establish the true extension number and correspondence between the physical connection and the extension number.
For more information see chapter 4.

S   Idle
U   Unhook the handset
- Dial tone
U   Dial [***080**]
- Tone off, system outputs WHO AM I / IDENTIFICATION information
U   Replace the handset

5.13 CONFERENCE: (CONFIG)

A conference is set up one participant at the time through the global entry point

- **s** Idle
- **u** Unhook the handset
- ● Dial tone
- **u** Dial the global conference extension
- ● System informs to select conference room
- **u** Dial the wanted room number
- ● …… Conference

Each participant must follow the above sequence.

Replace the handset → terminates the participant

6. EXTENDED OPERATION OF INTERCOM UNIT: 61xx

6.1 ONE-BUTTON INTERCOM:

This functionality is dependant of having configured the one-button intercom memories (M1, M2 or M3) in the configuration (CONFIG).

S   Idle
U   Dial [**M1**], [**M2**] or [**M3**] (KEEP HOLDING FOR PTT MODE)
●   Extension dialled responds differently according to type:
         Paging group: Normal page.
         61xx extension: Enters speakerphone mode.
         POTS extension: Rings normally.
●   ……Conversation
U   Press ACT key / release [M] to terminate.

6.2 SPEED DIAL:

Programming a two-button speed dial memory location:
S   Idle
U   Dial [**P**]
●   **ACT** and **PTT** led on
U   Dial the sequence of the operation you want to program (note)
U   Dial [**P**]
●   **ACT** led on and **PTT** led OFF
U   Dial location key [**0**] – [**9**]
●   **ACT** led OFF

Erasing a two-button speed dial memory location:
S   Idle
U   Dial [**P**]
●   **ACT** and **PTT** led ON
U   Dial [**P**]
●   **ACT** led on and **PTT** led OFF
U   Dial location key [**0**] – [**9**] to erase
●   **ACT** led OFF

Using a two-button speed dial memory location
S   Idle
U   Unhook the handset / **ACT** key
●   Dial tone
●   **ACT** led on
U   Dial [**P**]
U   Dial location key [**0**] – [**9**]
●   System responds to the programmed sequence, see the description of the operation in question

6.3 PRE-DIALING:

Intercom units have the possibility to pre-dial extensions before going offhook.

S   Idle
U   Dial the extension number
U   Unhook the handset / **ACT** key
•   Call tone
•   ……Conversation
U   Replace the handset

7. INTERCOM UNIT FACILITIES 61xx :

7.1 MANUAL VOICE DIRECTION CONTROL:

This facility can be used during calls where one or both members are located in noisy areas and the normal voice direction circuit is operating optimally. It will transfer the intercom unit from the normal duplex (2-way) (handset mode) or semi duplex (speakerphone) to simplex (one-way-at-the-time) mode.

- ……Conversation
- **U** Press the **PTT** key for more than 0.5 sec. to engage simplex mode
- The PTT led starts to flash slowly (constantly lit when pressed)
- **U** Press the **PTT** key to speak, release the **PTT** key to listen
- ……Conversation

7.2 RINGER VOLUME CONTROL:

The ringer volume control has 5 steps. The default volume setting is preset to any of the 5 levels in the configuration (CONFIG). Minimum level is adapted to meet the requirement of a quiet cabin or office environment.

- **S** …….Ringing
- **U** Push the **VOL** key successively for higher volume until the top level. On top level the next step is bottom level.
- **S** ……Ringing

7.3 HANDSET VOLUME CONTROL:

The handset volume control has 5 steps. The default volume setting is preset to any of the 5 levels in the configuration (CONFIG). Minimum level is adapted to meet the requirement of a quiet cabin or office environment. 6112 6114 6124.

- **S** ……Conversation (using handset)
- **U** Push the **VOL** key successively for higher volume until the top level. On top level the next step is bottom level.
- **S** ……Conversation

7.4 LOUDSPEAKER VOLUME CONTROL:

The loudspeaker volume control has 5 steps independent of other volume settings. The default volume setting is preset to any of the 5 levels in the configuration (CONFIG). Minimum level is adapted to meet the requirement of a quiet cabin or office environment.

- **S** ……Loudspeaking conversation (using integrated microphone and internal / external loudspeaker)
- **U** Push the **VOL** key successively for higher volume until the top level. On top level the next step is bottom level.
- **S** ……Loudspeaking conversation

7.5   PRIVACY (ringer off):

This facility only applies to intercom unit 6110.

S   Idle
U   Slide the **RINGER** switch (rear edge side of the intercom unit) to **OFF** to engage privacy, **ON** to resume normal operation.

7.6   SOUND MODES:

The various intercom units can have up to 3 different sound modes:
−   **Handset mode**: The handset microphone and earphone are enabled, any loudspeaker is muted, and the unit chassis microphone is muted.
−   **Loudhearing**: The handset microphone and earphone are enabled, the internal/external loudspeaker is enabled, the unit microphone is muted
−   **Loudspeaking**: The handset is on-hook (or absent) and thus disabled, the internal/external loudspeaker is enabled, the unit microphone is active. In this mode the unit is operating fully handsfree.

How to achieve the different modes:
−   **Handset mode**: Off-hook the handset while idle.
−   **Loudhearing**: Push the **ACT** key while the handset is off-hook.
−   **Loudspeaking**: On-hook the handset while in loudhearing mode. Or push the **ACT** key while idle.

7.7   BACKLIGHT DIMMER CONTROL:

The backlight has 5 intensity levels.
The selected level is maintained through next change or restart/power up. 6123.

S   Idle
U   Press the **F** key
•   **F** led on
U   Push the **VOL** key successively for higher intensity until the top level. On top level the next step is bottom level. Bottom level is not completely off.
U   When correct level is set, press the **F** key
•   **F** led off

7.8   CHANGE RINGTONE:

There are five different ringtones to select from. The selected ringtone is stored on the extension in the exchange and maintained through restart.

S   Idle
U   Press the **F** key
•   **F** led on
U   Push the **R** key for next ringtone.

- 1 sec. of the ringtone is played.
- **U**   When correct tone is selected, press the **F** key
- **F** led off

CONTACT INFORMATION

Jotron AS
P.O.Box 54
3281 Tjodalyng
Norway
Tel: +47 33 13 97 00
Fax: +47 33 12 67 80
sales@jotron.com

Jotron UK Ltd.
Crosland Park
Cramlington
NE23 1LA
United Kingdom
Tel: +44 (0) 1670 712000
Fax: +44 (0) 1670 590265
sales@jotron.com

Jotron Asia Pte. Ltd.
19 Loyang Way
Changi Logistics Centre
Rear Office Block 04-26
Singapore 508724
Tel: +65 65426350
Fax: +65 65429415
sales@jotron.com

Jotron USA, Inc.
10645 Richmond Avenue, Suite 170
Houston, TX 77042
USA
Tel: +1 713 268 1061
Fax: +1 713 268 1062
sales@jotron.com