



SPA-PABXR-V2

PABX Recall Voice Recorder



Contents

1	Introduction	3
1.1	Document Scope	3
1.2	Publication Log	3
2	SPA-PABXR-V2 PABX Recall Voice Recorder	4
2.1	Application	4
2.2	Audio Passes Directly Through	4
2.3	Audio Playback without Delay	4
2.4	Audio Playback with Delay	4
2.5	Detection of on Hook Line When Connected to Phone Line	4
3	Function Settings	5
3.1	DIP Switch 'PROG' Settings	5
3.2	Jumper 'J1' settings	5
3.3	Volume P1	5
4	Electrical Specification	6
4.1	Environment	6
5	SPA-PABXR-V2 Connections	7
5.1	Layout	7
5.2	X150 (Input/Output)	7
5.3	X151 (Bidirectional/Input)	7
5.4	X152 (Output)	8
5.5	X153 (Output)	8
5.6	X154 (Input)	8
5.7	LEDs	8
6	Timing Specification for Off-Hook	9
6.1	Calling and Off-Hook	9
6.2	Detection of Recording Tone	10
6.3	Detection of Missing Loop Current	10

1 Introduction

1.1 Document Scope

This document describes the SPA-PABXR-V2 PABX Recall Voice Recorder.

Item No.	Item Name	Product Description
3005010169	SPA-PABXR-V2	PABX Recall Voice Recorder

1.2 Publication Log

Revision	Date	Author	Status
1.0	28.10.2014	JS	ETRONIC CSU-6 CO documentation
1.1	5.10.2021	HKL	Published in Zenitel template

2 SPA-PABXR-V2 PABX Recall Voice Recorder

The SPA-PABXR-V2 is a recall unit which can be connected to either the telephone network or a trunk interface. Both connection possibilities have 3 program settings:

1. Let the Low Frequency (LF) signal pass directly through.
2. Play the message instantly when the line is on hook.
3. Play the message for 5 seconds after the line is on hook.

There is also the option of selecting 6 zones.

2.1 Application

Calling the applied number, the unit will automatically go off-hook. With trunk interface the unit will go off-hook with a switch signal. The unit has a maximum recording time of 30 seconds. Recording time is independent of the settings described below.

2.2 Audio Passes Directly Through

After the dial tone, the zone selection will be performed. Zone selection is done by sending a DTMF tone that will be detected by the unit. When '0' is pressed, all zones will be selected automatically. Zone selection is terminated by pressing '#'. Hereafter the LF signal goes directly to the speaker. If the unit is set for automatic zone selection, all zones will be activated, and the zone selection procedure is ignored.

2.3 Audio Playback without Delay

After the dial tone the desired message can be recorded. The message length is limited to 30 seconds. After recording the message, '#' is pressed for the selection of zones. When '0' is pressed, all zones will be selected automatically. The message will be played instantly when the line is on-hook. If zone selection is not performed within 15 seconds, the unit will automatically set the line to go on-hook. If the message is longer than 30 seconds, the unit will indicate with two short tones and switch automatically over to zone selection.

If the unit is set to automatic zone selection, all zones will be activated after the line is on-hook.

2.4 Audio Playback with Delay

After the dial tone the desired message can be recorded. The message length is limited to 30 seconds. After recording the message, '#' is pressed for the selection of zones. When '0' is pressed, all zones will be selected automatically. The message will be played 5 seconds after the line is imposed. If zone selection is not performed within 15 seconds, the unit will automatically set the line to go on-hook. If the message is longer than 30 seconds, the unit will indicate with two short tones and switch automatically over to zone selection.

If the unit is set to automatic zone selection, all zones will be activated after the line is on-hook.

2.5 Detection of on Hook Line When Connected to Phone Line

After LF-signal ends, one from the central will detect incoming hook flash, recording tones or pressed '*x' that equals on-hook. See electrical specifications for data.

3 Function Settings

3.1 DIP Switch 'PROG' Settings

Position	Function
1	ON: Calibration not necessary OFF: The unit must be calibrated Calibration is performed as follows: Call the unit Press # 9798 Hook on Calibration takes approximately 10 seconds
2	ON: Automatic choice of all zones OFF: Zones are chosen manually
3	ON: The message is played directly without recording OFF: The message is recorded
4	ON: The message is played without delay OFF: The message is played with a 5-second delay

Change of DIP switch settings requires a power off / power on of the unit.

3.2 Jumper 'J1' settings

Connecting to PSTN jumper 'J1' is moved to position 'PSTN'.

Connecting to TRUNK 'J1' is moved to position 'TRUNK'.

In trunk mode the unit can operate without an exchange. Connect an audio input and a potential free switch (dry contact) for activation to X151. There is no individual zone selection in this mode.

3.3 Volume P1

With Potentiometer P1 it is possible to adjust audio output level.

4 Electrical Specification

Supply Voltage: 24 VDC / 100mA +40% - 25%

Load of NO/NC contacts: max 250 V_{RMS} / 170mA

Calling Voltage: 30-120 V_{EFF} / 25 Hz ± 2.5 Hz, 50 Hz ± 5 Hz

Recorded Tone: 425 Hz ± 25 Hz / -22 dBm – 0 dBm

DC Loop Current: 8 mA – I_{MAX} (according to TBR 21, section 4.7.1: I_{MAX} = 60mA)

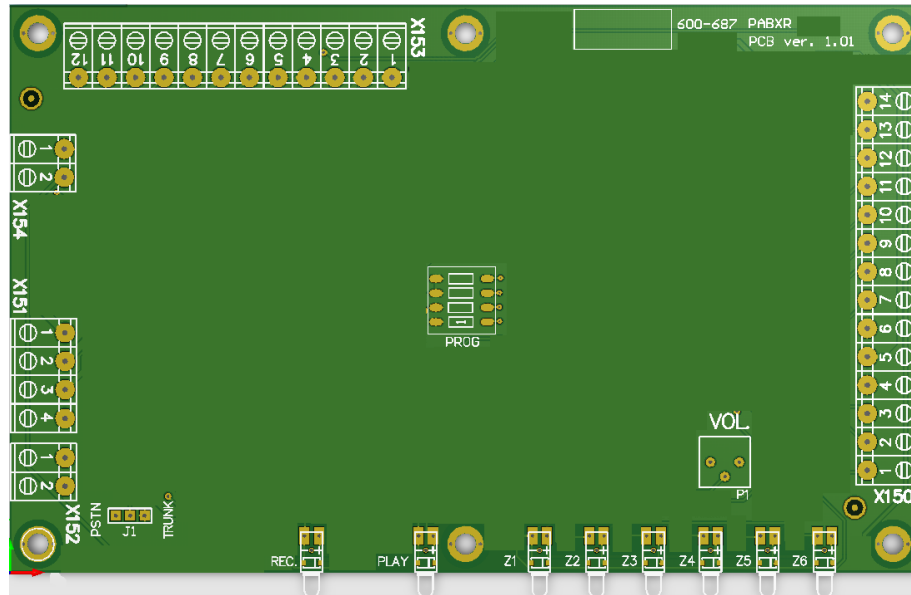
4.1 Environment

Working Temperature: -15 °C to +55 °C

Humidity: 93% RH

5 SPA-PABXR-V2 Connections

5.1 Layout



5.2 X150 (Input/Output)

1 (Output)	Audio output
2 (Output)	Audio output
3 (Output)	Message playback indicator. Connected to unit Ground.
4	Ground
5	Power supply
6	Ground
7 (Output)	Zone 1. Activation signal.
8 (Output)	Zone 2. Activation signal.
9 (Output)	Zone 3. Activation signal.
10 (Output)	Zone 4. Activation signal.
11(Output)	Zone 5. Activation signal.
12 (Output)	Zone 6. Activation signal.
13 (Input)	Activation signal zone selection. It is possible to have your own activation signal. Signal here will be outputted to zone selection 1-6 on X150 (position 7-12). Load max. 250VAC/170mA.
14	EARTH

5.3 X151 (Bidirectional/Input)

1	Line a / Audio input
2	Line b / Audio input
3 (Input)	TI Switch. When in "TRUNK" mode use X151 (position 3+4) with a potential free contact for activation. When released it will automatically play back the message with delayed playback setting.
4 (Input)	TI Switch

5.4 X152 (Output)

1, 2	Playback switch potential free contact. Load max. 250VAC/170mA.
------	---

5.5 X153 (Output)

1, 2	Zone 1 potential free contact. Load max. 250VAC/170mA.
3, 4	Zone 2 potential free contact. Load max. 250VAC/170mA.
5, 6	Zone 3 potential free contact. Load max. 250VAC/170mA.
7, 8	Zone 4 potential free contact. Load max. 250VAC/170mA.
9, 10	Zone 5 potential free contact. Load max. 250VAC/170mA.
11, 12	Zone 6 potential free contact. Load max. 250VAC/170mA.

5.6 X154 (Input)

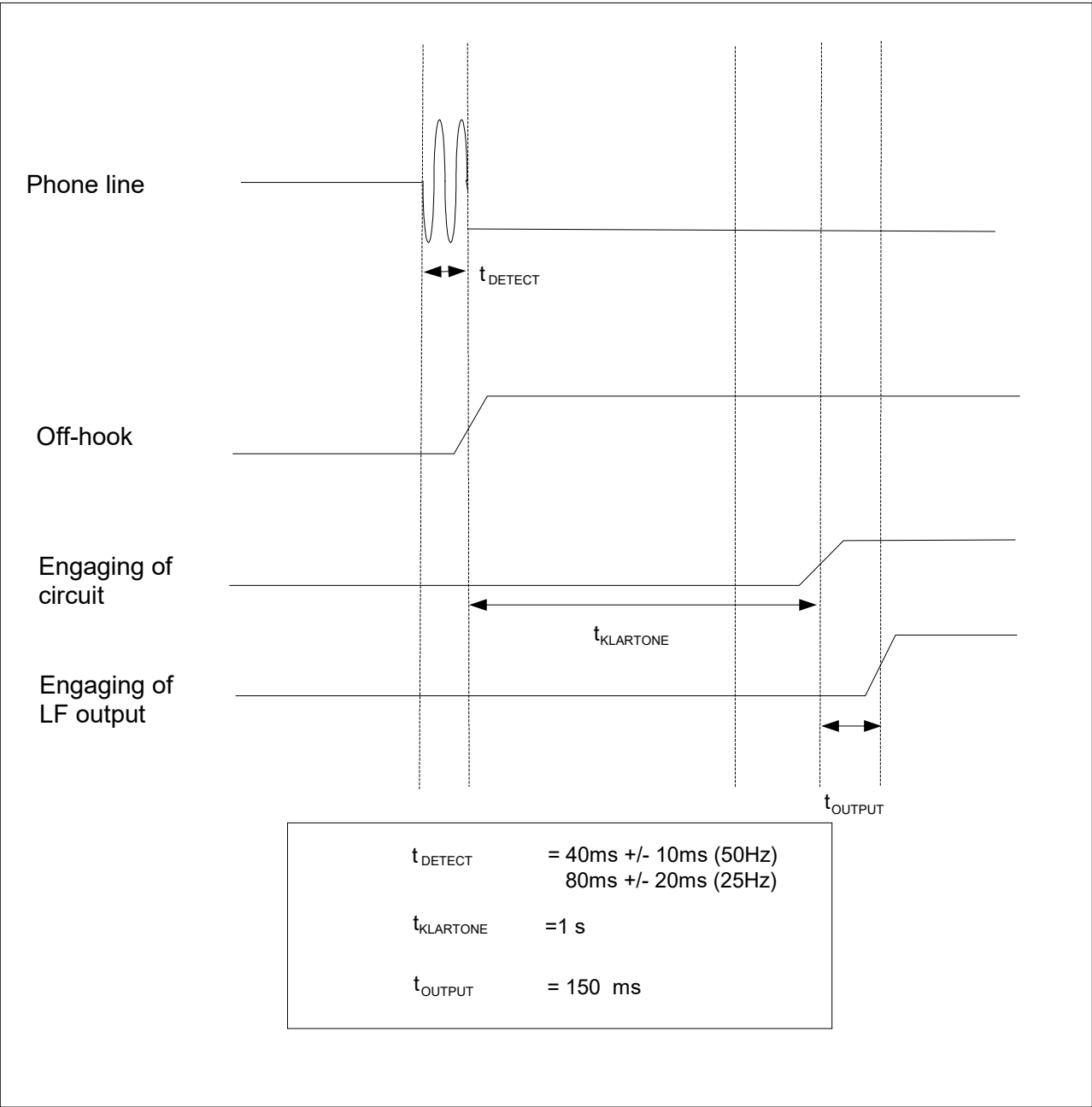
1, 2	PAUSE input switch (potential free)
------	-------------------------------------

5.7 LEDs

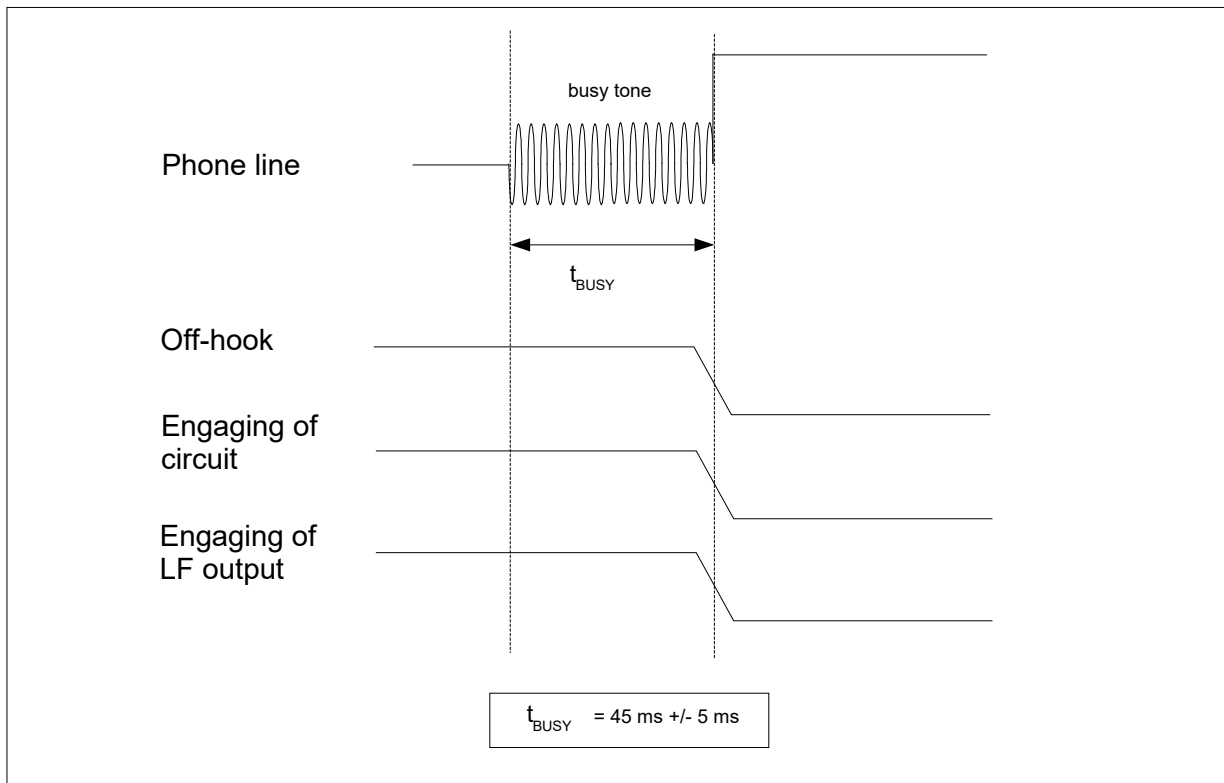
REC	Indicates a recording is active
PLAY	Indicates a playback is active
Z1	Indicates current zone is active at playback. Zone 1.
Z2	Indicates current zone is active at playback. Zone 2.
Z3	Indicates current zone is active at playback. Zone 3.
Z4	Indicates current zone is active at playback. Zone 4.
Z5	Indicates current zone is active at playback. Zone 5.
Z6	Indicates current zone is active at playback. Zone 6.

6 Timing Specification for Off-Hook

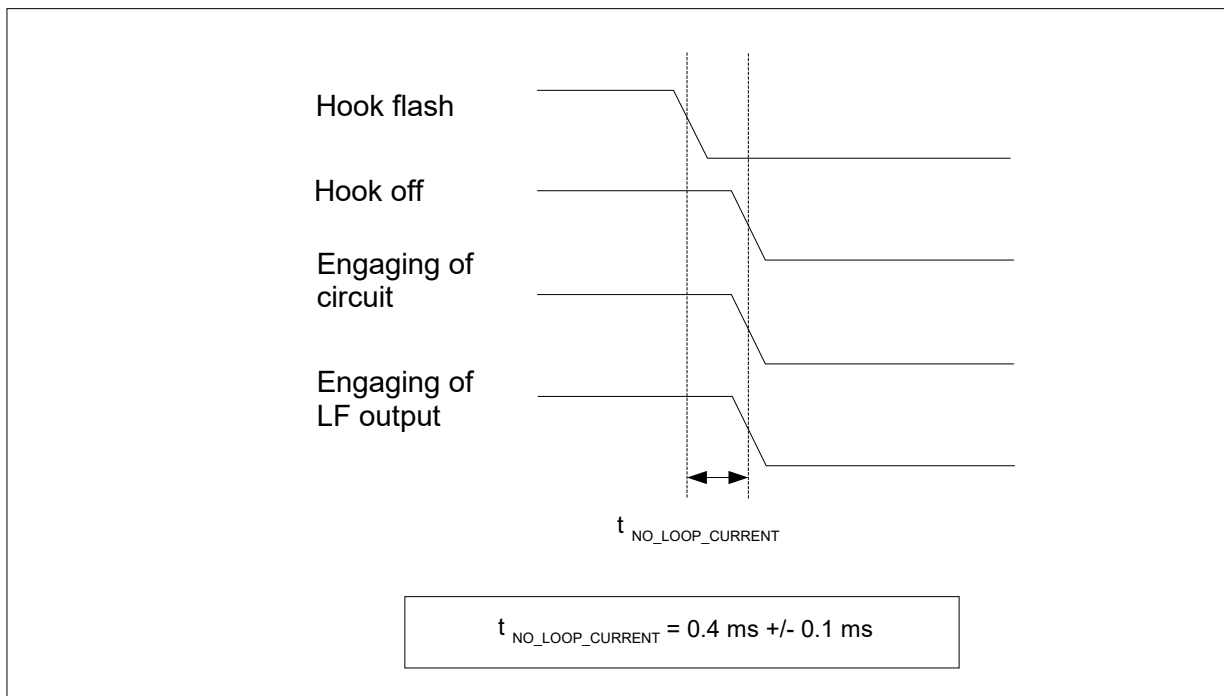
6.1 Calling and Off-Hook



6.2 Detection of Recording Tone



6.3 Detection of Missing Loop Current



www.zenitel.com

Zenitel Norway AS

DOC NO. **A100K12122**

cs@zenitel.com



Zenitel and its subsidiaries assume no responsibility for any errors that may appear in this publication, or for damages arising from the information therein. Zenitel and Vingtor-Stentofon products are developed and marketed by Zenitel. The company's Quality Assurance System is certified to meet the requirements in NS-EN ISO 9001. Zenitel reserves the right to modify designs and alter specifications without notice. **ZENITEL PROPRIETARY**. This document and its supplementing elements contain Zenitel or third-party information which is proprietary and confidential. Any disclosure, copying, distribution or use is prohibited, if not otherwise explicitly agreed in writing with Zenitel. Any authorized reproduction, in part or in whole, must include this legend: Zenitel – All rights reserved.