

# AN VPA Smart SLT Door Intercom



**For Indoor Use**

## Programming Guide for AN VPA SLT Door Station

### Feature List:

- Auto answers incoming calls.
- Supports PSTN, PBX - SLT and FXS connectivity. 24 – 48 v lines.
- Disconnects on detecting busy tone or after 5 minutes.
- A call is initiated by pressing the call button. A second press of the call button will disconnect the call in progress.
- An intercom call will disconnect if there is 30 seconds of silence.
- One relay enables access control for door, gate or boom.
- 10 phone numbers can be stored in the door station. The first phone number will be dialed after pressing the door station button. (Interrelated to Item 11.) If the number was not reachable, (busy or no answer) the second phone number will be dialed and so on until the call was answered. A maximum of 99 calls will be attempted.
- The cadence and frequency of ring back tone and busy tone received by the door station can be manually programmed to match that of the PABX, PSTN or ATA.
- The PBX service tone parameters can be adjusted automatically through the learning function.
- Easy to program with the inbuilt voice wizard assistant.
- A confirmation voice announcement is provided when entering the parameters and stored phone numbers.
- For elevator use with Aristel's intercom controller system, the door station has a 'no connection' detection feature. If the system does not receive a signal from the door station within a certain defined period, the system will send a warning notice to the monitoring station.

### Programming Method:

- To enter the programming mode:  
Call the door station from a keyphone, SLT phone or mobile phone. The door station will auto answer and send a "du" sound to acknowledge. The calling party should dial # # # within 5 seconds to enter the programming mode and hear the voice wizard message of "Login to the programming mode. Please enter the programming item".
- To enter the review programming mode:  
Call the door station from a keyphone, SLT phone or mobile phone. The door station will auto answer and send a "du" sound to acknowledge. The calling party should dial DTMF # # \* within 5 seconds to enter the review programming mode and hear the voice wizard message of "Login to the reviewing mode. Please enter the programming item."
- To enter the learning mode:
  1. To record the busy tone cadence: Call to the door station and hang up after the door station answers. Then press the call button on the door station at least 5 seconds. After hearing the door station message "Detect the busy tone", release the button. When the door station message announces "Good bye", the reference busy tone cadence has been stored automatically for future reference.

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2. To record the ring back tone cadence: Press the button on the door station. After hearing the ring back tone, press the button on the door station until hearing the door station message of "Detect the ring back tone". When the door station message announces "Good bye", the reference ring back cadence has been stored automatically for future reference.

**Note:** The reference busy tone cadence and ring back cadence will be stored as the new setting in the door station in place of the original system setting.

## Programming and Reviewing Steps:

- Step 1: The door station auto answers and plays a "du" sound. Then, by entering # # # within 5 seconds, you are in programming mode. (Or by entering # # \* you are in reviewing mode).
- Step 2: The door station voice wizard instructs you to "Login to the programming mode. Please enter the programming item". (or "Login to the reviewing mode. Please enter the programming item".)
- Step 3: The calling party enters the programming item and # button after finished.
- Step 4: The door station instructs you to "Please enter the number" or announce the setting parameter.
- Step 5: The calling party enters the numbers that the door station is required to dial or the parameter value. Then press # button after finished. (\* button stands for "pause" delay 1 second.)
- Step 6: If the announced messages are as same as the intended ones, it means the programming are correct. If the messages are not correct, hang up to cancel the previous programming.
- Step 7: After hearing the message "Please enter the programming item" again, go to the Step 3 for the next programming or reviewing mode. The door station will hang up if no digit was entered within 5 seconds.

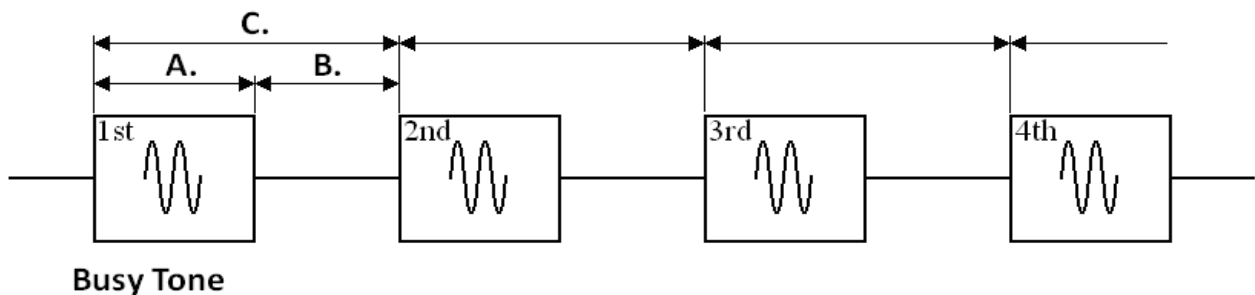
## Parameter value

- 1) Stored phone number sets: 1,2,3,4,5,6,7,8,9,0 stands for 10 sets of numbers that can be programmed into the door station. Each set can consist of 30 digits maximum.
- 2) Item 10: Setting value: 1 ~ 60 (\* 1 minute) as the maximum conversation period. Default: 5 minutes. The door station will hang up automatically when this conversation time has elapsed.
- 3) Item 11: Setting value: 1 ~ 128 (\* 1 second) as the minimum detection time interval. Default: 15 seconds. If the number dialed was answered within the detection time, then the next s number will not be dialed.
- 4) Item 12: Hang up if there is silence detected for the setting value time. Setting value: 3 ~ 120 (\*1sec) Default: 30 seconds.
- 5) Item 13: Duration of PSTN line busy tone ON cycle. Setting value: 3 ~ 30 (\*30ms). Default: 360ms.
- 6) Item 14: Duration of the PSTN line busy tone OFF cycle. Setting value: 3 ~ 30 (\*30ms). Default: 360ms.
- 7) Item 15: Duration of the PBX busy tone ON cycle. Setting value: 3 ~ 30 (\*30ms). Default: 360ms.

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- 8) Item 16: Duration of the PBX busy tone OFF cycle. Setting value: 3 ~ 30 (\*30ms). Default: 360ms.
- 9) Item 17: Duration of the null number busy tone ON time. Setting value: 3 ~ 200 (\*30ms). Default: 2490ms.
- 10) Item 18: Duration of the null number busy tone OFF time. Setting value: 3 ~ 200 (\*30ms). Default: 510ms.

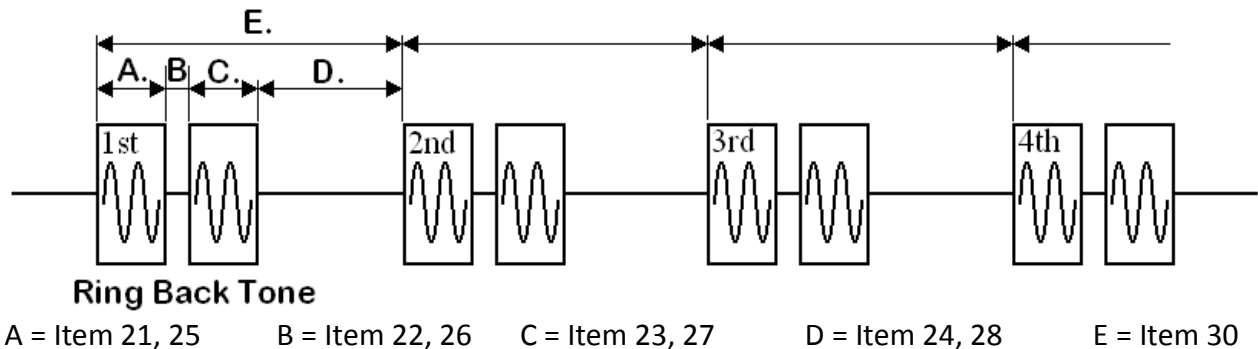


A = Item 13 / Item 15 / Item 17,    B = Item 14 / Item 16 / Item 18,    C = Item 20

- 11) Item 19: Tolerance percentage for the busy tone detection. Setting value: 1 ~ 7 (\*10%). Default: 20%.
- 12) Item 20: Busy tone detection times. Setting value: 1 ~ 32. Default: 5 times.
- 13) Item 21: Duration of 1st ON cycle for the PSTN line ring back tone. Setting value: 3 ~ 80 (\*30ms). Default: 390ms.
- 14) Item 22: Duration of 1st OFF cycle for the PSTN line ring back tone. Setting value: 3 ~ 200 (\*30ms). Default: 180ms.
- 15) Item 23: Duration of the 2nd ON cycle for PSTN line ring back tone. Setting value: 3 ~ 80 (\*30ms). Default: 390ms.
- 16) Item 24: Duration of the 2nd OFF cycle for PSTN line ring back tone. Setting value: 3 ~ 200 (\*30ms). Default: 1980ms.
- 17) Item 25: Duration of the 1st ON cycle for PBX ring back tone. Setting value: 3 ~ 80 (\*30ms). Default: 390ms.
- 18) Item 26: Duration of the 1st OFF cycle for PBX ring back tone. Setting value: 3 ~ 200 (\*30ms). Default: 180ms.
- 19) Item 27: Duration of the 2nd ON cycle for PBX ring back tone. Setting value: 3 ~ 80 (\*30ms). Default: 390ms.

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20) Item 28: Duration of the 2nd OFF cycle for PBX ring back tone. Setting value: 3 ~ 200 (\*30ms).  
Default: 1980ms.



21) Item 29: Percentage tolerance for ring back tone detection. Setting value: 1 ~ 7 (\*10%).  
Default: 20%.

22) Item 30: Ring back tone detection times. Setting value: 1 ~ 32. Default: 5 times.

23) Item 31: Auto redial times. Setting value: 0 ~ 99. Default: 30 times.

24) Item 32: Interval time of detecting wire connection. Setting value: 0 ~ 120. (\*1 minute. 0 means no signal sending.) Default: 0 minute.

25) Item 34: Enable/disable learning function message. Default: 0 disable.

26) Item 35: Activation time of Relay. Setting value: 1~15. (\*1 second). Default: 1 second.

27) Item 36: Set RELAY control code. Maximum 4 digits. Default: **0\***

### Warning:

When manually change the control code, please do not set the same number or digit in the adjacent position. Each digit use for the control code must be unique; like "0\*" or "123" or "1536".

28) Item 41: Restore to the factory's default value.

29) Item 42: Erase all stored phone numbers.

30) Item 45: Listen to ring back tone learning message; it replays the tone and its parameters.

31) Item 46: Listen to busy tone learning message; it replays tone relative its parameters.

32) Item 47 Identify software version (under the review programming mode only)

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## Default Value List:

Item	Description	Setting Range	Default Value	Unit
1	The 1st stored phone number	0,1,2,3,4,5,6,7,8,9,0,*		
2	The 2nd stored phone number	0,1,2,3,4,5,6,7,8,9,0,*		
3	The 3rd stored phone number	0,1,2,3,4,5,6,7,8,9,0,*		
4	The 4 <sup>th</sup> stored phone number	0,1,2,3,4,5,6,7,8,9,0,*		
5	The 5th stored phone number	0,1,2,3,4,5,6,7,8,9,0,*		
6	The 6th stored phone number	0,1,2,3,4,5,6,7,8,9,0,*		
7	The 7th stored phone number	0,1,2,3,4,5,6,7,8,9,0,*		
8	The 8th stored phone number	0,1,2,3,4,5,6,7,8,9,0,*		
9	The 9th stored phone number	0,1,2,3,4,5,6,7,8,9,0,*		
0	The 10 <sup>th</sup> stored phone number	0,1,2,3,4,5,6,7,8,9,0,*		
10	Maximum conversation Period	1~60	5	Minutes
11	Minimum detection time interval	1~128	15	Seconds
12	Hang up time if silence is detected.	3~120	30	Seconds
13	Duration of PSTN line busy tone ON cycle	3~30	12	30ms
14	Duration of PSTN line busy tone OFF cycle	3~30	12	30ms
15	Duration of PBX busy tone ON cycle	3~30	17	30ms
16	Duration of PBX busy tone OFF cycle	3~30	17	30ms
17	Duration of the null number busy tone ON time	3~200	83	30ms
18	Duration of the null number busy tone OFF time	3~200	17	30ms
19	Percentage tolerance for busy tone detection	1~7	2	10%
20	Busy tone detection time	1~32	5	times
21	Duration of 1st ON cycle for the PSTN line ring back tone	3~80	13	30ms
22	Duration of 1st OFF cycle for PSTN line ring back tone	3~200	6	30ms
23	Duration of 2nd ON cycle for PSTN line ring back tone	3~80	13	30ms
24	Duration of 2nd OFF cycle for PSTN line ring back tone	3~200	66	30ms
25	Duration of 1st ON cycle for PBX ring back tone	3~80	33	30ms
26	Duration of 1st OFF cycle for PBX ring back tone	3~200	100	30ms
27	Duration of 2nd ON cycle for PBX ring back tone	3~80	33	30ms
28	Duration of 2nd OFF cycle for PBX ring back tone	3~200	100	30ms
29	Percentage tolerance for ring back tone detection	1~7	2	10%
30	Ring back tone detection time	1~32	5	times
31	Auto redial times	0~99	30	times
32	Interval for detecting broken wire connection	0~120 (0 means not activated)	0	minutes
34	Enable/disable learning function message	0,1	0	
35	Activation time of Relay.	1 ~ 15	1	second
36	Set RELAY control code	0,1,2,3,4,5,6,7,8,9,0,*	0*	
41	Restore to factory's default value			
42	Delete a stored phone numbers			
45	Listen signal of ring back tone learning message	if activated		
46	Listen signal of busy tone learning message	if activated		
47	Identify the software version	Under the review programming mode only		

NOTE 1: When entering the learning mode successfully, Item 34 will be changed as 1 (enable) automatically, irrespective of the default value 0. If no signals were received under the learning mode, the default value of item 34 will be restored to 0 and all obtained learning parameters from learning mode will be deleted.

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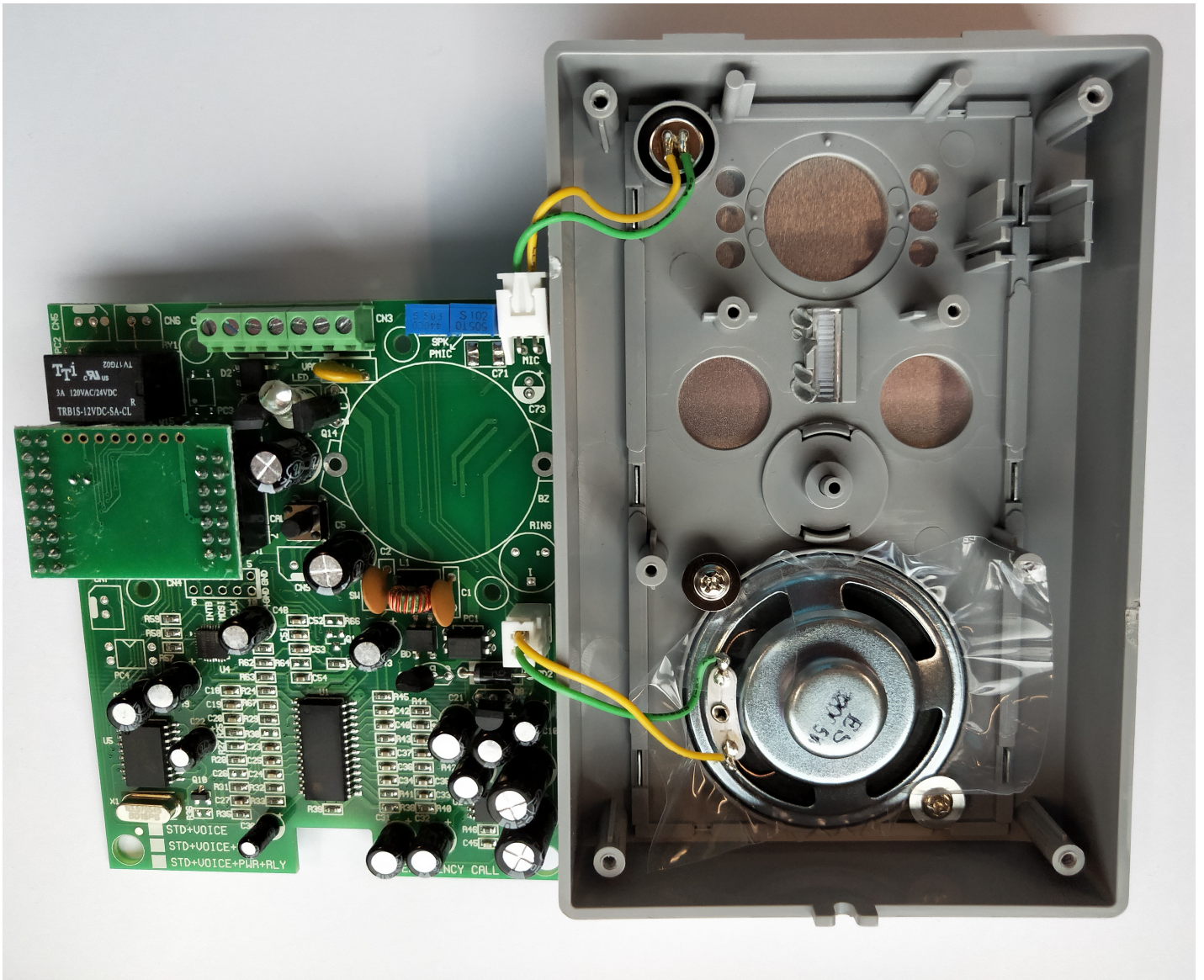
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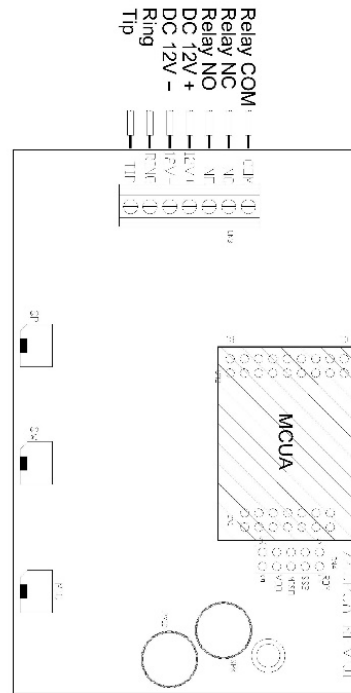
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## Wiring Instruction

1. Connect a line or Analogue extension port of PABX to the TIP and RING of AN VPA. The AN VPA with Line power cannot operate the door latch. If you need the access control function, please refer to 2. below.
2. Power adapter

Connect a local power supply to terminals marked DC 12V + & DC12V -”

The AN VPA is designed to work with power supplies 12V AC/DC.

The power supply should be capable of supplying a constant current of no less than 1 Amp

### 3. Door Lock

Connect an electric door lock to terminals Com, NO & NC for latch 1.

## HOT LINE FUNCTION

If the AN VPA is connected to an analogue port of a PABX, you can activate the hot line feature of the PABX and don't need to program the number in the door intercom. When the visitor presses the call button, the AN VPA will ring to the hot lined extension.

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## ANVPA DOOR STATION OPERATION

### Visitor:

When a visitor pushes the call button to activate the AN VPA, ring tone will be heard from the Analogue Line Door Station. At the same time, connection is established with the phone number that is stored in the AN VPA. The remote phone answers the call from AN VPA and starts a conversation with the visitor. During conversation the door latch can be operated by pressing the “0\*”.

Note:

**\*To reduce the chances of programming errors, originate a call from a land line and enter the digits slowly.**

### Technical specifications

- Standby current: under 0.3mA.
- Min and max loop current: 24~50 volts @ 18mA~100mA DC.
- Min ring detect voltage: 30 volts AC.
- DTMF tone duration: 100mS.
- DTMF inter-digit pause: 100mS.
- Speaker output level line powered: 74-78dB at 1 metre.
- Speaker output level with external power: 80dB at 1 metre.
- REN: < 0.1
- Relay contact current: 3A/24VDC.
- Operating temperature: 0~45°C.
- Physical size: 135 x 90mm x 27mm

### Aristel Networks Pty Ltd

Unit 1/25 Howleys Rd Notting Hill VIC 3168  
P: (03) 8542 2300 F: (03) 9544 3299  
[www.aristel.com.au](http://www.aristel.com.au)

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