



Installation, Configuration & Operation ECP-AA1 Intercom

TECHNICAL MANUAL

A100K11789

when communication is critical

Contents

1	Introduction	3
1.1	Document Scope	3
1.2	Products	3
1.3	Publication Log	3
1.4	Related Documentation	3
2	Installation & Mounting	4
3	Connectors & Power	5
3.1	Connectors	5
3.1.1 3.1.2	Ethernet Connector I/O Connector	5 5
3.2	Power	5
3.3	Connection to Emergency Break	6
3.4	Connection to CCTV System	6
4	Configuration	7
4.1	Initial Setup	7
4.2	Audio Settings	8
4.3	I/O Settings	9
4.4	Output Settings	.10
4.4.1 4.4.2	CCTV Interface General Settings	10 11
4.5	Call Button Settings	13
4.5.1	Ringlist Settings	14
4.6	SIP Configuration	15
5	Operation	16

1 Introduction

1.1 Document Scope

This document describes the installation, configuration and operation of the ECP-AA1 Intercom.

1.2 Products

Item Number	Item Name
1008192011	ECP-AA1 Intercom

1.3 Publication Log

Revision	Date	Author	Status
1.0	18.5.2016	HVD/HKL	Published
1.1	16.9.2019	HKL	New doc no. A100K11789

1.4 Related Documentation

Doc. no.	Documentation
A100K11194	Turbine IP Intercoms Technical Manual

2 Installation & Mounting

The ECP-AA1 is flush-mounted using 4 screws of type:

- M4x16 DIN 7991 A4 Flat Head Socket Cap Screw, Stainless Steel A4 DIN7991
- Length as required



3 Connectors & Power

3.1 Connectors

The ECP-AA1 has 2 connectors located at the bottom of the unit.

3.1.1 Ethernet Connector

Type: M12, D-coded, Female, 4-pin



1	TD+
2	RD+
3	TD-
4	RD-

3.1.2 I/O Connector

Type: M12, A-coded, Female, 8-pin



1		+5V DC
2		GND
3		I/O 1
4		I/O 2
5		I/O 3
6	i	Relay – Common
7		Relay – NC
8		Relay – NO

3.2 Power

The ECP-AA1 is powered through the Ethernet connector via Power over Ethernet (PoE). The Ethernet connector is located at the bottom of the unit.



3.3 Connection to Emergency Break

The emergency break provides a clean contact to the ECP-AA1. Its purpose is so that an emergency call is made as soon as the emergency break handle is operated.

Procedure

• Connect the clean contact between pins 2 and 3 on the I/O connector.

3.4 Connection to CCTV System

The ECP-AA1 provides a clean contact to the CCTV system. Its purpose is to send a trigger to the CCTV system when a call is made from the ECP-AA1.

Procedure

• Connect the CCTV trigger input between pins 6 and 8 on the I/O connector.

4 **Configuration**

4.1 Initial Setup

The ECP-AA1 is delivered with factory default settings. By default, the unit's IP settings are configured according to DHCP.

To configure the unit:

- 1. Press the call button on the unit for it to speak its IP address
- 2. Ensure that the IP address of your PC is in the same range as that of the station IP address.
- 3. Access the station by logging into the web interface using a standard web browser on your PC
- 4. In the browser's address bar, enter the station IP address and press the ENTER key
 - The station login page will be displayed.
- 5. Click Login
- 6. Enter the default User name: admin
- 7. Enter the default Password: alphaadmin
- 8. Select Station Main > Main Settings

Station Main	SIP Configuration		Station Administration	Advanced SIP	Advanced I
▶ Station In	formation	Stati	on Mode		
▼ Main Setti	ngs	● Us	e SIP		
		OUs	e Alphacom		
		Use Pulse			
		O Use Pulse Server			
		⊖ Use Exigo			
		Prod	uct Model And Acce	essory	
		Mod	el: Kit		~
		IP Se	ttings		
		DHCP	Static IP O		

- 9. Under Station Mode select Use SIP
- 10. Under Product Model And Accessory select Kit
- 11. Depending on system requirements, set the IP Settings to **DHCP** or **Static IP**. In the latter case, fill in the network details as required
- 12. Click Save
- 13. On the new page, click Apply

The unit will now reboot.

4.2 Audio Settings

Normally no changes are required to be made to the audio settings, but depending on the specific circumstances where the unit is installed, minor adjustments may be needed.

• Select SIP Configuration > Audio Settings

Station Main	SIP Configuratio	n Station Administration	Advanced SIP	Advanced Net	twork	
▶ SIP Setting	gs A	udio Settings				
 Audio Sett 	ings	Description	Configuration			
		Speaker Volume:	0 -			
	'	Volume Override Level:	8 -		Sets th	he volume during volume override.
Direct Aco	ess Key	Microphone Sensitivity:	5 🕶		Defaul	It value 5
Relay Sett	ings	Remote Controlled Audio Direction:			(DTMF	* to talk, DTMF # to listen, DTMF 0 for open duplex)
▶ Time Setti	ngs	SIP Message Controlled Audio Direction:			(SIP M	ESSAGE controls audio direction)
▶ I/O Settine	as	Automatic Volume Control:			Volum	e depends on noise level
▶ Keyboard	Settings	Debug Automatic Volume Control:			Shows	s current volume level on OLED display
Script Con	figuration	Conversation Mode:	Full Open Dup	lex 🔻		
	-	Audio Profile:	Normal	•		
V Script Eve	nts	Noise Reduction Level:	0 🔻		0 = dis	sabled.
Script Uple	bad	Tone Volume:	0 👻		(-1)=di	isabled, 0=default, [14]=[-221]dB
	T	Iftp Server For Audio Files:			Tftp se will us	erver used for downloading audio files. If empty, the station te the configuration for TFTP remote provisioning.
	(Dutgoing Ringing Audio File:		±	Wav fil 16 kHz It migh from tf	le to be played during outgoing calls. The wav file must be z, 16 bit, singel channel wav file and be below 1 mb file size. It take several minutes before the wav file is downloaded tp server and applied.
		ncoming Ringing Audio File:			Wav fil 16 kHz It migh from tf	le to be played during incoming calls. The way file must be z, 16 bit, singel channel way file and be below 1 mb file size. It take several minutes before the way file is downloaded tp server and applied.
				s	ave	

On this page it is possible to set:

- Speaker Volume
- Microphone Sensitivity
- Noise Reduction Level

Furthermore, it is possible to select different algorithms for the **Conversation Mode**.

Note that due to the close proximity of the microphone and speaker it may be necessary to select **Robust Duplex** as Conversation Mode if either the speaker level or the microphone sensitivity is increased from that of the default setting.

4.3 I/O Settings

• Select SIP Configuration > I/O Settings

Station Main SIP Configuration	Station Administration	Advanced SIP	Advanced Network			
▶ SIP Settings	I/O Settings					
Audio Settings	Description			c	Configurat	tion
P Audio Sectings	I/O Pin 1:			Γ	Input 1	~
Direct Access Key Settings	I/O Pin 2:			Ī	Input 2	~
▶ Relay Settings	I/O Pin 3:			[Input 3	~
▶ Time Settings	I/O Pin 4:				Input 4	~
▼ I/O Settings	I/O Pin 5:				Input 5	~
	I/O Pin 6:				Input 6	~
				Sav	e	

Note: Changes requires application reboot

Under **Configuration** set the following values for the I/O Pins:

- I/O Pin 1: Input 1
- I/O Pin 2: Input 2 or Output 2 depending on the application for which this I/O will be used
- I/O Pin 3: Input 3 or Output 3 depending on the application for which this I/O will be used
- I/O Pin 4: Input 4
- I/O Pin 5: Output 5
- I/O Pin 6: Output 6
 - Click Save

Although the ECP-AA1 will not use these settings until after a reboot, it is not necessary to reboot at this stage.

4.4 Output Settings

• Select SIP Configuration > Relay Settings

4.4.1 CCTV Interface

For Choose Relay To Configure:

• Select Relay 1

Station Main SIP Configu	ration Station Administration Advanced SI	P Advanced Network					
► SIP Settings							
Audio Settings	Choose Relay To Configure: Relay 1 V						
Direct Access Key	Relay 1 Settings						
Settings	Description	Configuration					
▼ Relay Settings	Remote Digit For Relay On:						
	Remote Digit For Relay Off:	- 🗸					
	Remote Digit For Relay Slow Flash :	- 🗸					
Time Settings	Remote Digit For Relay Fast Flash:	- 🗸					
► T/O Settings	Remote Digit For Relay Toggle:	- 🗸					
/ 1/0 Octaings	Remote Digit For Timed Relay On:	- 🗸					
Keyboard Settings	Timed Relay Duration:	0 seconds.					
▹ Script Configuration	Outgoing Ringing:	On 🗸					
Script Events	Incoming Ringing:	- ~					
 Coriet Unload 	Outgoing Call:	- ~					
Script Upload	Incoming Call:	- 🗸					
	Group Call (Pulse mode only):	- 🗸					
	Idle:	Off 🗸					
	Error (Not Registered):	- 🗸					

Under **Configuration** set the following values:

- Outgoing Ringing: **On**
- Idle: Off
 - Click Save

4.4.2 General Settings

For Choose Relay To Configure:

• Select Output 5

SIP Settings	Relay Settings			
Audio Settings	Output 5 🗸			
Direct Access Key	Output 5 Settings			
Settings	Description		Config	uration
 Relay Settings 	Remote Digit For Relay On:		- 🗸	
	Remote Digit For Relay Off:	Remote Digit For Relay Off:		
	Remote Digit For Relay Slow	Flash :	- 🗸	
Time Settings	Remote Digit For Relay Fast	Flash:	- 🗸	
I/O Settings	Remote Digit For Relay Togg	Remote Digit For Relay Toggle:		
v 1/0 Settings	Remote Digit For Timed Relay	y On:	- 🗸	
Keyboard Settings	Timed Relay Duration:		0	second
Script Configuration	Outgoing Ringing:		Slow f	lash 🗸
Script Events	Incoming Ringing:		-	~
· Script Events	Outgoing Call:		Off	\sim
Script Upload	Incoming Call:		-	~
	Group Call (Pulse mode only):	-	~
	Idle:		Off	~
	Error (Not Registered):		-	~

Under **Configuration** set the following values:

- Outgoing Ringing: Slow flash
- Outgoing Call: Off
- Idle: Off
 - Click Save

For Choose Relay To Configure:

• Select Output 6

ation Main SIP Config	uration Station Administration	Advanced SIP	Advanced Network	
SIP Settings	Relay Settings			
Audio Settings	Choose Relay To Configure:	Dutput 6 🗸		
Direct Access Key	Output 6 Settings			
Settings	Description		Config	uration
Relay Settings	Remote Digit For Relay On:		- 🗸	
	Remote Digit For Relay Off:		- 🗸	
	Remote Digit For Relay Slow	Flash :	- 🗸	
Time Settings	Remote Digit For Relay Fast F	lash:	- 🗸	
I/O Settings	Remote Digit For Relay Toggl	Remote Digit For Relay Toggle:		
1/0 Settings	Remote Digit For Timed Relay	- 🗸		
Keyboard Settings	Timed Relay Duration:		0	second
Script Configuration	Outgoing Ringing:		-	~
Script Events	Incoming Ringing:		-	~
- Competence	Outgoing Call:		On	~
Script Upload	Incoming Call:		-	~
	Group Call (Pulse mode only)	:	-	~
	Idle:		Off	~
	Error (Not Registered):		-	~
			Save	

Under Configuration set the following values:

- Outgoing Call: On
- Idle: Off
 - Click Save

4.5 Call Button Settings

Both the call button on the unit and the emergency break input are set up as a call button.

• Select SIP Configuration > Direct Access Key Settings

Station Main SIP C	onfiguration	Station Administration	Advanced SIP	Advanced Network						
▹ SIP Settings Direct Access Key Settings										
Audia Cattinga			Function (idle)	Value						
In Audio Settings	Inpu	t 1 Call To 12345678		12345678						
 Direct Access Key Settings 	Inpu	ut 4	Call To	12345678						
				Save						
▶ Relay Settings	Dire	ct Access Key Settin	ıgs (In Call)							
▶ Time Settings			Function (in call)	Activated						
► I/O Settings	Inpu	ut 1	Do Nothing 🗸							
	Inpu	ut 4	Do Nothing 🗸							
▶ Keyboard Settings	5									
Script Configuration	on			Save						

Assuming that the call button should call a fixed number:

- Enter the number to be called in the field **Value** for both **Input 1** and **Input 4**
- Make certain that the Function (in call) settings for both inputs are set to Do Nothing
- Click Save

4.5.1 Ringlist Settings

Optionally it is possible to make the ECP-AA1 call numbers in sequence until the call is accepted. If this is the requirement, make the settings as shown below:

SIP Settings	Direct Access	Key Settings				
Audio Settinas		Funct	tion (idle)	Value		Option
	Input 1	Call T	0			Ringlist 1 🗸
Settings	Input 4	Call T	0			Ringlist 1 🗸
				Save		
Relay Settings	Direct Access	Key Settings (I	n Call)			
Time Settings		Funct	tion (in call)	Activated		Deactivated
I/O Settings	Input 1	Do N	lothing 🗸			
Keyboard Settings	Input 4	Do N	lothing 🗸			
Script Configuration				Save		
Script Events	Ringlist Setting	IS				
Script Upload		Ringlist 1	With	s Ringlist 2	With Previous	Ringlist 3
	Value 1	12345678		-		
	Value 2	98765432				
	Value 3	10203040				
	Value 4					
	Value 5					
	Value 6					
	Value 7					
	Value 8					
	Value 9					
	Value 10					
	Value 44					
	value 11					
	Value 12					
	Value 12 Value 13					
	Value 11 Value 12 Value 13 Value 14					
	Value 11 Value 12 Value 13 Value 14 Call Until Answer	↓ (loops the	ringlist)			

- Under the parameter Option select Ringlist 1 for both Input 1 and Input 4
- Under **Ringlist Settings** and **Ringlist 1** define up to 14 numbers which will be called in sequence
- Check the Call Until Answer box
- In the **Ringing Time** field enter a maximum time in seconds before the next number in the list should be called
- Click Save

4.6 SIP Configuration

For the ECP-AA1 to be able to register to a SIP server, the correct SIP settings must first be done.

• Select SIP Configuration > SIP Settings

ation Main SIP Conf	iguration Station Administratio	n Advanced SIP	Advanced Network		
 SIP Settings 	Account Settings				
	Description		Configuration		
	Display Name:		ECP1		
Audio Settings	Directory Number (SIP ID)	:	5001		
Direct Access Key Settings	Server Domain (SIP):		10.5.1	12.111	
	Backup Domain (SIP):				
Relay Settings	Backup Domain 2 (SIP):				
Time Settings	Registration Method:		Paralle	ell 🗸	
r nine oceniga	Authentication User Name	:	5001		
▶ I/O Settings	Authentication Password:		••••	•••••	
Keybeard Cattings				1	

- Enter values for : Display Name, Directory Number (SIP ID), Server Domain (SIP), Authentication User Name
- Enter values in other fields as may be required by the SIP server
- Click Save
- Click Apply

The ECP-AA1 will now reboot and all settings that have been made in the previous sections will take effect when the unit is up and running again.

5 Operation

The ECP-AA1 Intercom is a user-friendly Emergency Call Point with a single call button.



To make a call:

• Press the call button

0



 \circ $\;$ The red illumination ring around the call button will start flashing

A ring-back tone will be audible from the speaker

When the operator accepts the call:

- The green LED will be lit, indicating that 2-way communication is now possible
- The ring-back tone will cease
- o Speak into the microphone to communicate with the operator

When the operator terminates the call:

• The unit will revert to its idle state

www.zenitel.com

Zenitel Norway AS



The WEEE Directive does not legislate that Zenitel, as a 'producer', shall collect 'end of life' WEEE.

This 'end of life' WEEE should be recycled appropriately by the owner who should use proper treatment and recycling measures. It should not be disposed to landfill.

Many electrical items that we throw away can be repaired or recycled. Recycling items helps to save our natural finite resources and also reduces the environmental and health risks associated with sending electrical goods to landfill.



Under the WEEE Regulations, all new electrical goods should now be marked with the crossed-out wheeled bin symbol shown.

Goods are marked with this symbol to show that they were produced after 13th August 2005, and should be disposed of separately from normal household waste so that they can be recycled.



A100K11789

customer.service@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. 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.