

contacta
PLALS-V Series
Portable Large
Area Loop



contacta PLALS-V Series Portable Large Area Loop Owner's Manual

[Home](#) » [contacta](#) » contacta PLALS-V Series Portable Large Area Loop Owner's Manual 

Contents

- [1 contacta PLALS-V Series Portable Large Area Loop](#)
- [2 Features](#)
- [3 Physical Data](#)
- [4 Documents / Resources](#)
 - [4.1 References](#)
- [5 Related Posts](#)

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contacta PLALS-V Series Portable Large Area Loop



Our Portable Large Area Loop is an all-in-one fully portable hearing loop, ideal as a temporary solution or for use in multiple venues. It has a built in hearing loop driver, a 2 channel receiver and an auxiliary input. The receiving module is license-free and generally approved for operation in EU and EFTA countries.

Features

- Compact case
- 2 channel receiver
- Efficient power utilisation
- Continuous self-testing
- Accurate, lockable, front panel-mounted controls
- Padded pocket to house accessories

Standards

- BS EN 55103-1: 2009 (EMC emissions)
- BS EN 55103-2: 2009 (EMC immunity)
- FCC class “B” EMC (emissions)
- ICES-003
- IEC 60118-4 (in correct installations)
- IEC 62489-1

Physical Data

Dimensions	Height – 254mm (10”) Width – 540mm (21.25”) Length – 368mm (14.5”)
Weight (boxed)	PLALS-V / PLALS-V15: 13.5kg (29.76lbs)
	PLALS-V22: 15.76kg (34.7lbs)
Construction	Mild Steel
	ABS Plastic
Finish	Black Powder Coated

Applications

Suitable for medium-sized facilities, such as:

- Meeting and conference rooms
- Lecture halls
- Places of worship
- Ideal as a temporary solution for:

- Events
- Rooms where a permanent installation is not achievable
- Traveling instructors or public speakers

Components

- V7, V15 or V22 [-UK/EU/AUS/USJ]
- Power supply [PS-55-01]
- Rack mount bracket [MBR]
- 30m copper loop wire reel [RL-TAPE]
- Carry case and fixings with a built-in rack [CASE-19-2U-01]
- 2-channel wireless microphone transmitter with belt pack [IL-AC-WM-LT-00]
- 2 x Lapel microphones
- Handheld microphone [IL-AC-WM-HT-00]
- Fixings, padding and connectors

V7 Technical Data

Power Supply	30W 14Vdc 2.14A via External PSU (PS-55) Class 6 External PSU (100V-240V AC 50Hz-60Hz)	
Inputs	1 X Balanced Line Level (3 Pin Euro-Block) or 1 X Balanced Line Level (XLR) [optimized for -10dBV to 0dBv]	
	1 X Mic Level (12V phantom power via 680W) [optimised for levels above -45dBv]	
	1 X DC Input	
Outputs	1 X Loop Output (5.08mm Euro-Block)	
Loop Output Characteristics	Voltage	7.5Vrms (21.21Vpk-pk) @ 5Arms (14.14Apk-pk)*
	Current	5Arms (14.14Apk-pk) up to 300 seconds*
	Loop Connector	5.08mm Euro-block
Audio System	Frequency Response	80Hz to 9kHz
	Distortion	THD+N <1% (-40dB)
	AGC	Peak detecting
	HF Comp	7 optimised stages
Display & Controls	Display	LED Backlit LCD display
	Control	Single rotary control
Fault Monitoring and Protection	Main Display	Open circuit loop (DCR measurement)
		Loop ground fault
	Front Panel LED	Output voltage clipping
	Cooling	Internal heatsink with thermal protection

V15 Technical Data

Power Supply	100W 24Vdc 4.17A via External PSU (PS-60) Class 6 External PSU (100V-240V AC 50Hz-60Hz)	
Inputs	1 X Balanced Line Level (3 Pin Euro-Block) or 1 X Balanced Line Level (XLR) [optimised for -10dBV to 0dBV]	
	1 X Mic Level (12V phantom power via 680W) [optimised for levels above -45dBV]	
	1 X DC Input	
Outputs	1 X Loop Output (5.08mm Euro-Block)	
Loop Output Characteristics	Voltage	15Vrms (42.3Vpk-pk) @ 5Arms (14.14Apk-pk)*
	Current	5Arms (14.14Apk-pk) up to 300 seconds*
	Loop Connector	5.08mm Euro-block
Audio System	Frequency Response	80Hz to 9kHz
	Distortion	THD+N <1% (-40dB)
	AGC	Switchable (ON/OFF)
	HF Comp	7 optimised stages
	Acoustic Time Delay	10ms to 70ms adjustable in 1ms steps
Display & Controls	Display	LED Backlit LCD display
	Control	Single rotary control
Fault Monitoring and Protection	Main Display	Open circuit loop (DCR measurement)
		Loop ground fault
	Front Panel LED	Output voltage clipping
	Cooling	Internal heatsink with thermal protection

V22 Technical Data

Power (IEC Connection)	Voltage	100V-120V /200V-240V AC (Universal auto switching)	
	Power	175W	
	Frequency	50Hz-60Hz	
Inputs	Input A / Isolated	Line	3.5mm Euro-block [optimised for -10dBV to 0dBv]
		100V	100V Line Input (Transformer isolated) 3.5mm Euroblock
		MP3	3.5mm Euroblock [Transformer Isolated, optimised for -10dBV to 0dBv]
	Input B	Universal	Input B Line/Mic. (12V phantom power via 680W) [optimised for levels > -45dBv to -10dBv] 3.5mm Euroblock
Loop Outputs	Output Voltage	1 x 22Vrms (62.04Vpk-pk) @ 12Arms (33.84Apk-pk)*	
	Output Current	1 x 12Arms (33.84Apk-pk) up to 300 seconds	
	Loop Connector	1 x 4 Way 5.08mm Euro-block	
Line Output	Output Voltage	1 – 2Vrms	
	Connector	1 x 3.5mm Euroblock	
Audio System	Frequency Response	80Hz to 9kHz	
	Distortion	THD+N <1% (-40dB)	
	Automatic Gain Control	Switchable (Peak detecting) on or off	
	High Pass Filter	For removal of low frequency noise	
	High Frequency Comp.	7 DSP controlled, optimised stages	
	Acoustic Time Delay	10ms to 70ms adjustable in 1ms steps	
Display	LED backlit LCD display with backlight time-out		
Control	Single rotary push control		
Front Panel LED	Output voltage clipping		
Fault Monitoring / Protection	Temperature, fan speed, PSU fault, loop open, loop impedance error		

- **Note 1:** $Z=1.83\Omega$ (162uH +0.838 Ω @ 1.6kHz), Note 2: < 1% (-40dB) distortion, Note 3: The minimum loop resistance (DCR) is 0.25 Ω

IL-AC-WM-2C-LT Technical Data

Power Supply	12-18Vdc, 500mA
Carrier Frequencies	863 – 865MHz
Channels	81 tuneable UHF frequencies
Signal to Noise Ratio	>105dB
THD	<0.5% @ 1KHz
Frequency Response	50Hz – 18kHz \pm 1 dB
Image Rejection	>85dB
Connectors	DC in
	2 x XLRM
	6.3mm jack
	2 x BNC antenna
Output Impedance	2.2K Ω
Output Level	400mV (balanced), 200mV (unbalanced)

IL-AC-WM-HT-00 Technical Data

Carrier Frequency Range	863.1 – 864.9MHz
S/N Ratio	>105dB
Power Supply	2 x AA batteries


RL-TAPE Conductor Data

Composition	Copper 99.5% (minimum)
Density	8.9g/cm ³
Melting Point	1083°C
Electrical conductivity	58m/ohm mm ² at 20°C (100%IACS)
Electrical resistance	0.01741 ohm mm ² /m at 20°C
Hardness	50/60 HV
Copper section	RL-TAPE-10 – 0.5mm ² RL-TAPE-12.5 – 1.25mm ² RL-TAPE-25 – 2.5mm ²

Talk to us now:

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Documents / Resources

	contacta PLALS-V Series Portable Large Area Loop [pdf] Owner's Manual PLALS-V Series Portable Large Area Loop, PLALS-V Series, Portable Large Area Loop, Large Area Loop, Area Loop, Loop
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References

- [Innovative assistive technology solutions - Contacta](#)
- [User Manual](#)

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