



PS 29 DUAL CHANNEL BELTPACK



QUICK GUIDE

October 2013

This product is designed and manufactured by:

ASL Intercom BV
Zonnebaan 42
3542 EG Utrecht
The Netherlands
Phone: +31 (0)30 2411901
Fax: +31 (0)30 2667373
E-Mail: info@asl-inter.com
Web: www.asl-inter.com

1.0 GENERAL DESCRIPTION

The PS 29 is a portable dual channel intercom station. It is housed in a strong ABS case provided with a steel belt clip.

On the front panel are, separately for each channel A and B, a Volume (listen level) control, a TALK push button with LED indicator and a CALL push button with LED indicator.

On the rear panel are two XLR-3 connectors for the intercom connection cables (two 'party lines') and an XLR-4 connector for the headset.

As an option an XLR-6 headset connector can be fitted, allowing to hear channel A at the left headset can and channel B at the right headset can.

On the side panel are a side tone trimmer and a buzzer volume trimmer.

Special attention has been paid to the intelligibility of speech. By applying low noise / high speed op-amps, a speech presence filter and propriety high power bridged headphone amplifiers, communication is very comfortable even in environments with a high level of background noise.

The unique ASL call system provides both a flashing red LED and a very distinctive sound signal. A momentary push of the Call button makes the red LED flash whilst holding the button for 2 seconds activates the Call sound signal. The volume of this sound signal (the buzzer) can be adjusted at the side panel.

Fully electronic switching increases reliability and allows for 'soft' microphone 'on' switching (latched or momentary) and Remote Mic Mute facility

2.0 UNPACKING

The shipping carton contains the PS 29 and this quick guide. If any are missing, contact your dealer. After unpacking the unit please inspect for any physical damage and retain the shipping carton and relevant packing materials for use should the unit need returning.

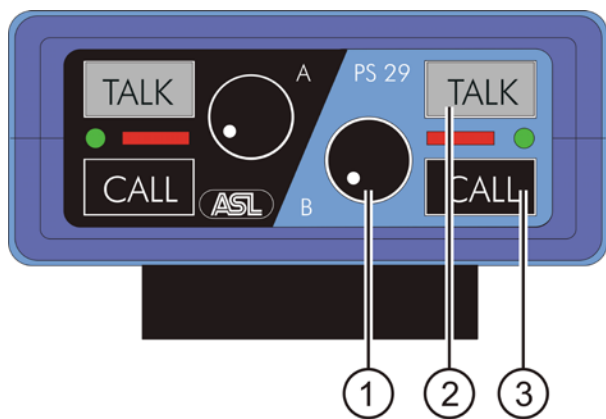
If any damage has occurred, please notify your dealer immediately so that a written claim can be initiated. Please also refer to the warranty section of this quick guide.

3.0 INSTALLATION

This PS 29 will form a part of an existing or new intercom system. There are no separate power connections or batteries to install as the necessary DC voltages are derived from the intercom master station or power supply, via the intercom connection cables.

To connect the PS 29 to the intercom system use professional flexible microphone cable with 2 wires and 1 shield only. The PS 29 is fully protected against mis-wiring (reverse power) or short circuit in the interconnecting cables.

4.0 FRONT PANEL CONTROLS



1 VOLUME control knobs

To adjust the listen levels, for channel A & B.

2 TALK buttons

These buttons allow talking to each channel separately or to both channels simultaneously. If a TALK button is switched on, its large green LED is lit.

Momentary switching:

If a TALK button is pushed and held, the microphone signal is sent to the referring intercom channel until the button is released

Latched switching:

If a TALK button is pushed shortly it is electronically latched and the microphone signal is sent to the referring intercom channel. If pushed again the TALK button switches off.

Mic Mute when latched On:

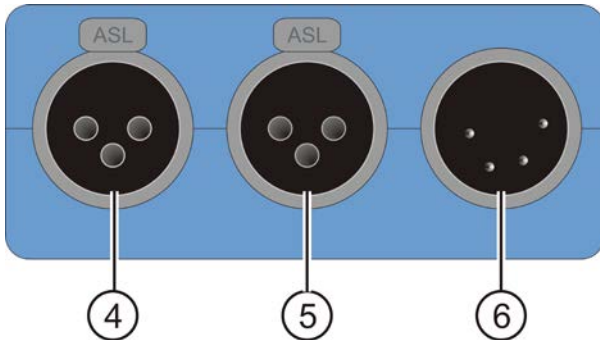
After a so-called Mic Mute signal has been received from a Pro Series master station or power supply, the connection between microphone and intercom channel is interrupted. By pushing the TALK button, the connection is restored and one can talk to the channel again.

3 CALL buttons

By pushing one of this buttons the Call function is activated for the referring party line channel.

With a momentary push a Call signal is sent to all intercom stations connected to that channel. The Call LED's on this PS 29 and on all stations connected to the same party line start flashing. By keeping the Call button pushed for 2 seconds the Call Buzzers are activated, provided the buzzers are not muted by a Buzzer Mute signal received from a Pro Series master station or power supply. After the CALL button is released the LED's continue to flash for a further 2 seconds.

5.0 REAR PANEL CONNECTORS



4 LINE connector channel A

5 LINE connector channel B

To connect the PS 29 to intercom party lines.

6 HEADSET connector (XLR-4)

To connect a headset to the PS 29.

The impedance of the headset can must be minimum 200 ohms; in case the headset has 2 cans in parallel, the impedance of each can must be minimum 400 ohms.

As an option, the PS 29 can be fitted with an XLR-6 headset connector, allowing to hear channel A on the left headset can and channel B on the right headset can ("binaural use").

6.0 INTERNAL CONTROLS

MIC GAIN trimmer

One has to open the PS 29 by removing the 4 screws at the underside. The trimmer is situated on the lower PCB board.

To increase the gain, turn clockwise.

To decrease the gain, turn counter clockwise.

7.0 SIDE PANEL CONNECTORS

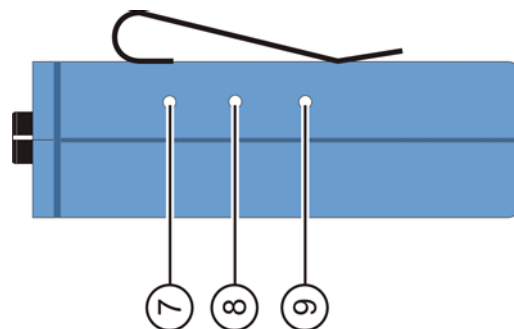
7 SIDE TONE trimmer channel A

8 SIDE TONE trimmer channel B

To adjust the level of your voice as you hear in your headset. Adjustment procedure:

- Turn trimmer fully clockwise
- Switch the microphones of all (speaker) stations connected to the referring party line channel off
- Push the Talk button of the referring channel and turn up its listen level
- Speak into the headset microphone
- Adjust the listen level by turning the side tone trimmer

The trimmers operating area is between fully clockwise and minimum level. Adjusting the side tone does not affect the level of your voice as heard by the other stations on the referring party line channel.



9 BUZZER VOLUME trimmer

To adjust the volume of the internal buzzer.

The buzzer is muted if a Buzzer Mute signal has been received from a Pro Series master station or power supply.

8.0 WARRANTY

This unit is warranted by ASL to the original end-user purchaser against defects in workmanship and materials in its manufacture for a period of 12 months from date of shipment to the end-user. If the unit is faulty it should be sent, in its original packing, to the supplier or your local ASL dealer,

shipping costs prepaid. A note must be included stating the fault(s) found and a copy of the original suppliers invoice. Faults arising from unauthorized modifications, misuse or accidents are not covered by this warranty

9.0 TECHNICAL SPECIFICATIONS PS 29

Intercom System

Dynamic range: 80 dB (1 kHz, THD<1%)
 Frequency response: 200 Hz - 15 kHz (-3 dB)
 Call signal: 2.8 mA
 Call signal threshold (receive): +2.4V DC
 Operating voltage: 24 – 32 V DC
 Power interrupt time (mic mute): 0.1 sec
 Line Impedance: 350 Ω (1 kHz) / 2.2 kΩ (DC)
 Audio level: nom. -18 dBu, max. 0 dBu

Mic pre-amp

Gain: 40 – 60 dB (adjustable internally)
 Presence filter: +6 dB at 5 kHz
 Power to electret mic: +9V DC

Side Tone

Rejection: 0 – 30 dB adjustable

Buzzer Max. SPL: 85 dBA

Headphone Driver Amps

Max. load: 200 Ω
 Max output level: 16 Vrms @ 200Ω
 binaural: 2x 10.3 Vrms @ 400 Ω
 Max output power: 1.3 Wrms @ 200 Ω
 binaural: 2x 0.27 Wrms @ 400 Ω

PS 29 Power Consumption

Current (at 30V DC): 30 mA quiescent,
 45 mA at signaling, 170 mA at max. output + signaling

PS 29 Dimensions & Weight

Width: 90 mm / Height: 50 mm (incl.clip)
 Depth: 124 mm / Weight: 350 grams

*0 dBu defined as 775 mV into open circuit.
 ASL reserves the right to alter specifications without prior notice*

For more specs see the PS 29 user manual. Go to www.asl-inter.com, section 'Support'

10.0 BLOCK DIAGRAM PS 29

