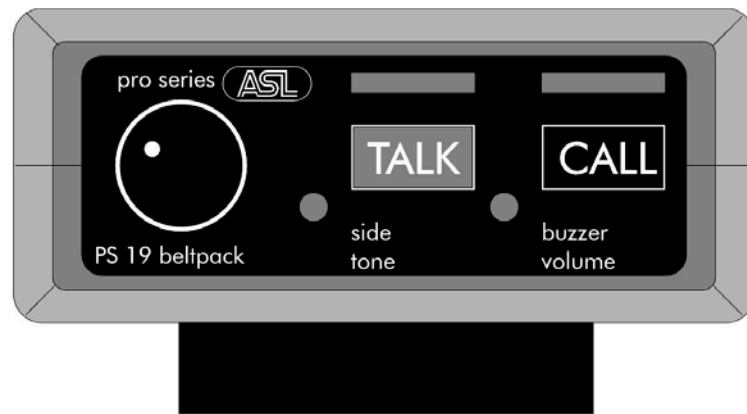




PS 19 SINGLE CHANNEL BELTPACK



QUICK GUIDE

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This product is designed and manufactured by:

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1.0 GENERAL DESCRIPTION

The PS 19 is a portable single channel intercom station. It is housed in a strong ABS case provided with a steel belt clip.

On the front panel are a Volume (listen level) control, a TALK and a CALL push button with LED indicators, a side tone trimmer and a buzzer volume trimmer. On the rear panel are XLR-3 connectors for the intercom connection cable and an XLR-4 connector for the headset.

By applying low noise / high speed op-amps, a propriety speech presence filter and 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 front panel.

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

2.0 UNPACKING

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 manual.

3.0 INSTALLATION

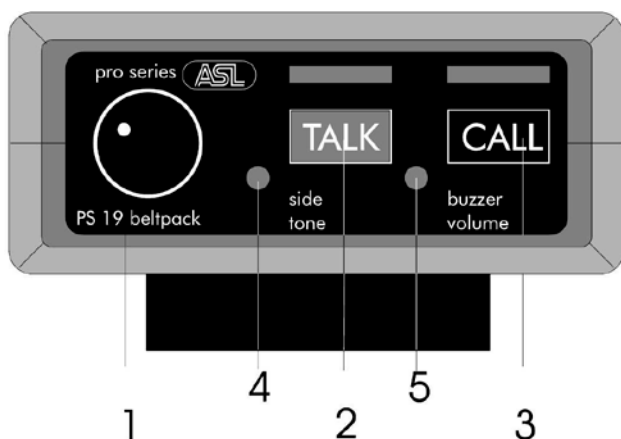
This PS 19 will form a part of an existing or new intercom system. Connection to it is straightforward. The necessary DC voltages are derived from the intercom master station or power supply, via the intercom connection cable.

To connect the PS 19 to the intercom system use professional flexible microphone cable with 2 wires and 1 shield only. Connect this cable to the LINE connector on the rear panel. The PS 19 is fully protected against wiring mistakes (reverse power) or short circuit in the interconnecting cables.

4.0 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. Faults arising from misuse, unauthorized modifications or accidents are not covered by this warranty. 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.

5.0 FRONT PANEL CONTROLS



1 VOLUME control knob

To adjust the listen level for the headset

2 TALK button

By pushing this button the signal of the headset microphone is sent to the intercom party line. If the TALK button is switched On, its large green LED is lit.

Momentary switching:

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

Latched switching:

If the TALK button is pushed shortly it is electronically latched and the microphone signal is sent to the 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 talks to the intercom channel again.

3 CALL button

By pushing this button the Call function is activated. With a momentary push a Call signal is sent to all stations connected to the intercom party line. The Call LED's of this beltpack and of all stations on the 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.

4 SIDE TONE trimmer

To adjust the level of one's own voice in one's own headset. Adjustment procedure:

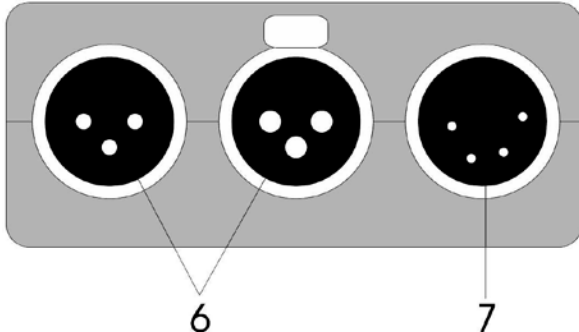
- Set trimmer in start position: turn fully clockwise
- Switch Off the microphones of all (speaker) stations connected to the party line
- Push the TALK button
- Turn up the listen volume
- Speak into the headset microphone
- Adjust the listen level by turning the side tone trimmer

The operating area of the trimmer 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 party line.

5 BUZZER VOLUME trimmer

To adjust the volume of the internal buzzer (located behind the front panel). The buzzer is activated if the CALL button on this beltpack (or on any other intercom station connected to the party line) is pushed longer than 2 seconds, provided the buzzers are not muted by a Buzzer Mute signal from a Pro Series master station or power supply.

6.0 REAR PANEL CONNECTORS



6 LINE connectors (XLR-3)

To connect the PS 19 to the intercom party line. The female connector is for input and the male connector for extending the intercom party line to other stations (daisy chain)

XLR-3 pin assignment:

- Pin 1: 0V / ground shield
- Pin 2: +30V DC power wire
- Pin 3: audio wire

7 HEADSET connector (XLR-4)

To connect a headset to the beltpack. 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.

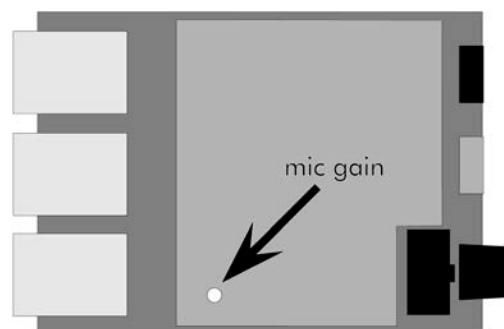
XLR-4 pin assignment:

- Pin 1: shield mic. (GND) / Pin 2: mic. (+)
- Pin 3: phones (+) / Pin 4: phones –

7.0 INTERNAL CONTROLS

MIC GAIN trimmer

To adjust the mic gain. One has to open the PS 19 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.



8.0 TECHNICAL SPECIFICATIONS

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

Intercom Line

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

Headphone Driver Amps

Max output level: 16 Vrms @ 200 Ω
 Max output power: 1.3 Wrms @ 200 Ω

Side Tone

Rejection: 0 – 30 dB adjustable

Buzzer

Max. SPL: 85 dBA

PS 19 Power Consumption

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

PS 19 Dimensions & Weight

Width: 90 mm / Height: 38 mm
 Depth: 124 mm / Weight: 295 grams

0 dB is defined as 775 mV into open circuit

ASL reserves the right to alter specifications without prior notice

For party line concept & cabling and system configurations, see the PS 19 User Manual. Go to www.asl-inter.com, section 'Support'

9.0 PS 19 BLOCK DIAGRAM

