



**PS 279**

## **DUAL CHANNEL MASTER STATION**



## **QUICK GUIDE**

**October 2013**

**This product is designed and manufactured by:**

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## 1.0 GENERAL DESCRIPTION PS 279

The PS 279 (19"/1RU) is designed to be a dual channel master station in an ASL intercom system. Each channel has a Volume control, a TALK and a CALL button with LED indicators and a side tone trimmer.

To connect the unit to remote stations, use professional microphone cable only.

The intercom line power supply is fully protected and can safely drive up to 20 Pro Series beltpacks or 10 remote 2-channel speaker stations operating at full power. In case the number of user stations exceeds the capacity of the PS 279 power supply, the PS 285 booster power supply can be used.

Since the power supply provides the line impedance, one uses only one PS 279 in a 2-channel system. Should the PS 279 be connected to another Intercom system, the 'System link' connector at the rear of the unit has to be used to avoid impedance problems.

Special attention has been paid to the intelligibility of speech. By applying low noise/high speed circuitry, a speech presence filter and a proprietary high power headphone amplifier, communication is very comfortable even in environments with a high background noise level.

The unique CALL system provides both a flashing red LED and a very distinctive and characteristic sound signal. Only a short push of the CALL button will make the LED flash. The Call sound signal (buzzer) is activated by holding the Call button for two seconds. In case the sound signal is undesirable, all buzzers can be muted with the "All buzzers on/off" button.

Fully electronic switching allows for "soft" Mic on switching (latched or momentary) and remote Mic Mute facility. All microphones of stations connected to the PS 279 can be muted by pushing a button on the front panel.

An Aux input at the rear panel allows inserting external audio signals at line level. An Aux signal can be routed to intercom line A and/or B, or to the local headset.

As an option, an XLR-6 headset connector can be fitted, allowing the user to hear channel A + AUX program signal on the left headset can and channel B + AUX program signal on the right headset can.

By changing the position of internally mounted jumpers, it's also possible to hear channel A + B on the left can and the AUX program signal on the right can.

## 2.0 UNPACKING

The shipping carton contains the PS 279, mains power cable, spare fuses (T 1250) and this Quick Guide. If any are missing, contact your dealer. After unpacking the unit, please inspect for any physical damage to the unit, 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. See also section 3

## 3.0 WARRANTY

ASL Intercom warrants this unit against defects in workmanship and materials for a period of one year from the 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, send it in its original packing to the supplier or your local ASL dealer, with shipping prepaid. A note must be included stating the faults found and a copy of the original suppliers invoice.

## 4.0 MECHANICAL INSTALLATION

A vertical rack space of 1U (1.75" / 44,5 mm) is required for the PS 279. It is not necessary to provide rear support by extra bracing or shelving. Adequate ventilation must be provided by allowing sufficient space around the sides and rear of the unit to ensure free circulation of air.

Forced cooling is not required.

The power supply is mounted on the bottom of the PS 279. After a period of time it will feel hot to the touch on top and bottom. This is normal and should be no cause for alarm.

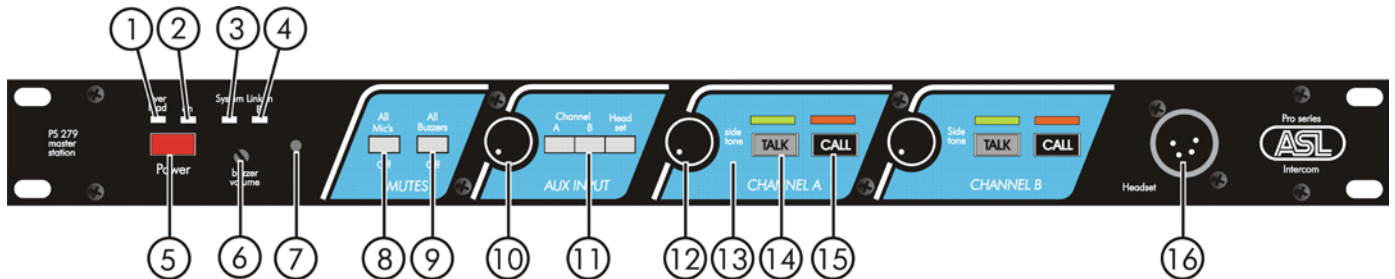
## 5.0 MAINS POWER

### **WARNING: This appliance must be earthed !**

The PS 279 may be connected to a mains power outlet of 100 - 240 V AC (50 - 60 Hz), 100 watts.

Avoid using mains power outlets which also power dimmer controlled lighting equipment.  
Fuse type for all voltages: T 1250  
For more details, see the PS 279 user manual

## 6.0 FRONT PANEL CONTROLS AND CONNECTOR



### **1 OVERLOAD LED**

This LED illuminates if the circuit breaker shuts off line power due to overload or short circuit.

### **2 POWER LED**

This LED illuminates if line power is supplied.

### **3 SYSTEM LINK LED / CHANNEL A**

This LED illuminates if a channel of another ASL intercom system is connected to channel A of the PS 279, through its "System Link" connector. For 'System Link', see the PS 279 user manual.

### **4 SYSTEM LINK LED / CHANNEL B**

Same as #3, but for channel B.

### **5 POWER ON/OFF switch**

To switch the internal power supply On and Off.

### **6 BUZZER VOLUME trimmer**

To adjust the buzzer volume.

### **7 BUZZER**

To indicate an incoming or outgoing call. The buzzer is activated by pushing a CALL button of the PS 279 or any other station longer than 2 sec

### **8 ALL MIC'S ON/OFF button**

To mute all microphones of the connected stations. Each station user may re-activate its microphone by pushing its TALK button.

### **9 ALL BUZZERS ON/OFF button**

To mute all buzzers of the connected user stations can be muted. The buzzers remain muted until the Mute button is switched off again.

### **10 AUX VOLUME controls**

To adjust the level of the Aux input signal to each of the two intercom party lines.

### **11 A / B / HEADSET routing switches**

To route the Aux signal to either intercom channel A and/or channel B or directly to the headset and not to the intercom channels.

### **12 VOLUME control knobs**

To adjust the listen level of the headset. Each channel can be adjusted separately

### **13 SIDE TONE trimmers**

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

- set the trimmer in start position: fully clockwise
- switch off the microphone of all connected (speaker) stations
- switch on the microphone of the required channel
- turn up the volume of the required channel
- speak into the headset microphone
- adjust the listen level by turning the side tone trimmer

The operating area is between fully clockwise and minimum level.

Adjusting the side tone does not affect the level of your voice as it is heard by other user stations.

### **14 TALK buttons A & B**

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

#### *Latched switching:*

If a TALK button is pushed shortly it is electronically latched and the microphone signal is sent to the referring channel. If the button is pushed again, the connection between microphone and the channel is cut off.

#### *Momentary switching:*

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

## 15 CALL buttons A & B

To activate the CALL system for the referring channel. A momentary push sends a Call signal to all stations connected to the channel and the Call LEDs start flashing. By keeping the buttons pushed for 2 seconds, the buzzers are activated.

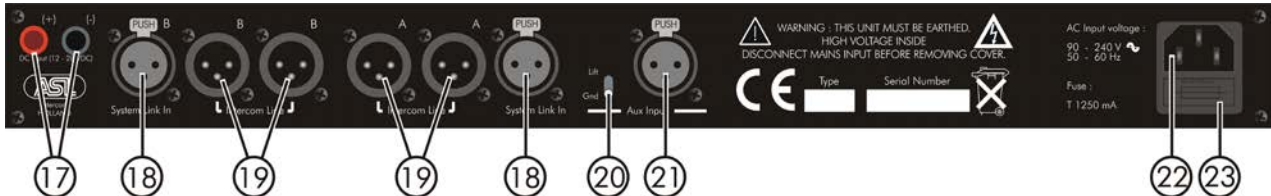
## 16 HEADSET connector (XLR-4)

To connect a headset to the PS 279.

The headset can must have a minimum impedance of 200  $\Omega$ . In case the headset has to cans in parallel, each can must have a minimum impedance of 400  $\Omega$ . The headset microphone may be a dynamic or electret type.

As an option, an XLR-6 type connector can be fitted to allow binaural use of the headset. See also section 8 "internal Controls".

## 7.0 REAR PANEL CONTROLS AND CONNECTORS



### 17 DC INPUT connectors

These connectors accept 24 – 30 V DC as a power source if mains power is not available.

### 18 SYSTEM LINK IN connectors (XLR-3)

Input for the cable of an external party-line Intercom system. See also #4 and #5.

### 19 A & B LINE connectors (XLR-3)

To connect the PS 279 to remote stations, via standard microphone cable.

### 20 GROUND LIFT switch

To lift pin 1 of the AUX input from ground

### 21 AUX INPUT connector (XLR-3)

Electronically balanced input (line level audio)

### 22 MAINS INLET

IEC Mains connector.

### 23 FUSE holder

To hold a T 1250 fuse

## 8.0 INTERNAL CONTROLS

Inside the PS 279 is a mic gain trimmer and are jumpers for 'left-center-right' routing of the audio in case an XLR-6 connector is fitted for binaural use of the headset. See the PS 279 user manual.

## 9.0 TECHNICAL SPECIFICATIONS

### Intercom system

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

### Switch Mode Power Supply

Mains voltage: 100 - 240V AC, 50/60Hz  
Output voltage: +30V DC (+/- 5%)  
Max. output power: 75 Watts  
Circuit breaker delay time: 0.2 sec.  
Automatic reset time: 3.0 sec.

**DC Input** Supply voltage: 24 – 30 V DC

**Side Tone** Rejection: 0 - 30 dB adjustable

### Mic. Pre-amp

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

### Headphone Driver Amps

Max. output level: monaural: 16 Vrms (@ 200  $\Omega$ )  
binaural: 2 x 10.3 Vrms (@ 400  $\Omega$ )  
Max. output power: monaural 1.3 Wrms (@ 200 $\Omega$ )  
binaural: 2 x 0.27 Wrms (@ 400  $\Omega$ )

### Aux input (Line level)

Nom. 0 dBu / Max. +21 dBu

### Dimensions & Weight

Width: 19" (483 mm) / Height: 1RU (44,5 mm)  
Depth: 150 mm / Weight: 1.85 kg

*For safety instructions and further technical information go to [www.asl-inter.com](http://www.asl-inter.com), section 'Support' and review the PS 279 user manual.*