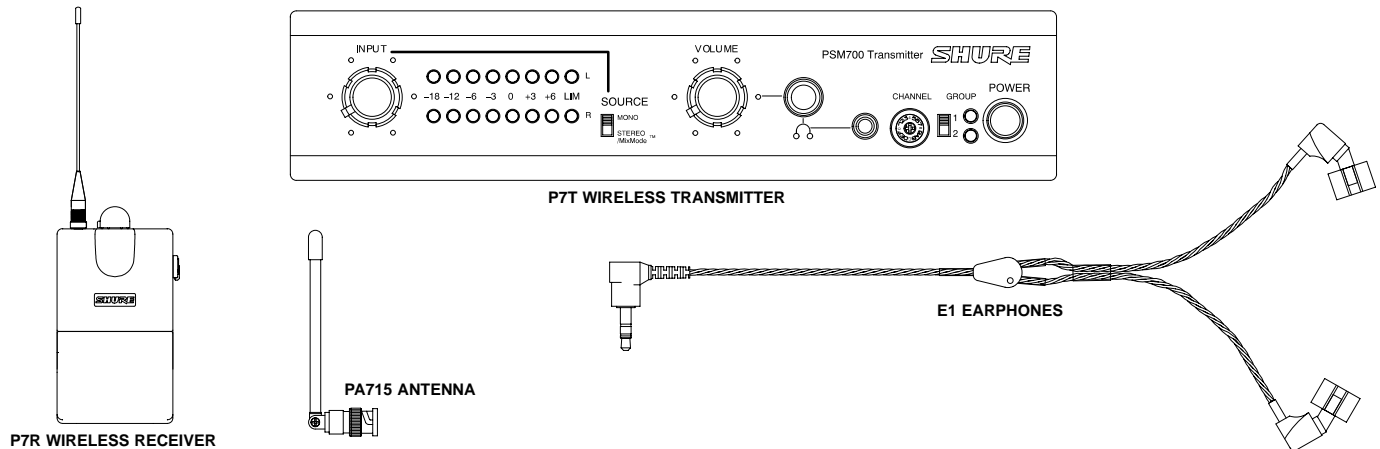


### PSM 700 IN-EAR MONITOR SYSTEM



### SYSTEM FEATURES

The Shure PSM700 Wireless Personal Monitor System is a UHF frequency-agile, two-channel monitoring system designed for onstage applications. The PSM has several advantages over onstage loudspeaker monitors: it is less visible, has better sound, allows freedom of movement, and reduces

the chances of feedback. It is a versatile system, designed for use in many different sound reinforcement applications: public address, live music, theater, and electronic news gathering (ENG). The wireless system is frequency compatible with other Shure UHF and VHF wireless systems.

### FEATURES

- UHF operation.
- Stereo or MixMode™ control for custom monitor mixes.
- 32 user-selectable frequencies per system.
- Up to 16 compatible frequencies for 16 different mixes.
- Frequency compatible with all Shure Wireless systems (country dependent).
- MPX Stereo audio transmission.
- Switchable high-frequency boost on P7R.
- +4 dBu/-10 dBV input level select switch on P7T.
- Electronically balanced, combined 1/4-in./XLR connectors on P7T can be used with balanced or unbalanced outputs.
- Volume and Balance dials on the P7R Receiver for easy user access.
- Internal linear power supply on P7T, switchable between 120 VAC and 230 VAC.
- Peak transmitter modulation limiter with fixed threshold and modulation limit indicators.
- Loop out connectors on P7T for multiple mix set-ups and easy installation.
- Tone-Key squelch.
- Half-rack chassis on P7T complete with mounting hardware.
- All metal construction on P7T and P7R
- Headphone monitor on P7T for local listening.
- Universal Earphones which seal off the ear canal to reduce ambient sound levels.

### SPECIFICATIONS

#### SYSTEM

##### RF Carrier Frequency Range

722 to 865 MHz (country dependent)

##### Operating Range

300 ft. (environment dependent)

##### Audio Frequency Response

50 to 15k Hz (+0, -3 dB re 1 kHz); earphone dependent

##### Image Rejection

80 dB typical

##### Spurious Rejection

80 dB typical

##### Total Harmonic Distortion (1 kHz)

0.8% typical (Ref. ±35 kHz deviation)

##### Modulation

FM ±35 kHz Deviation (Nominal), MPX Stereo

**Channel Separation:** 35 dB typical

**Signal-to-Noise Ratio:** 80 dB typical (A-weighted)

##### Operating Temperature

-7° C to +49° C  
(+20° F to 120° F)

**Battery Life:** 4-6 hours, volume dependent

##### Polarity

P7T audio inputs to P7R audio outputs: Non-inverting  
XLR: pin 2 positive with respect to pin 3  
1/4-in. TRS: Tip positive with respect to ring

#### P7T TRANSMITTER

##### RF Output Power

100 mW (+20 dBm) typical conducted  
(country dependent)

## Modulation Limiter

Internal peak limiter (>10:1 compression)

**Antenna:** External whip, 50 Ω BNC connector

## Power Requirements

P7T: 120 Vac, 50/60 Hz, 5 mm X 20 mm

EP7T: 230 Vac, 50/60 Hz, 5 mm X 20 mm

**NOTE:** This product is not disconnected from the mains power supply when the power switch is in the OFF position.

## Current

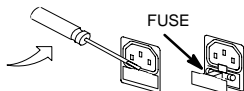
115 mAac maximum at 120 Vac

55 mAac maximum at 230 Vac

## Fuse

P7T: 100–120 Vac, 160 mA/250 V (SLO-BLO®)

EP7T: 220–240 Vac, 80 mA/250 V time delay



## Dimensions

44.5 mm X 196.8 mm X 241.3 mm  
(1 3/4 in. X 7 3/4 in. X 9 1/2 in.)

## Net Weight

1.497 kg (3 lbs., 4.8 oz.)

## P7R RECEIVER

### RF Sensitivity

0.7 μV typical

### Squelch Threshold

2 μV typical

### Antenna Input Impedance

50 Ω typical

### Antenna

External, threaded connector

### Power

9 V battery (alkaline recommended),  
4–6 hours (volume dependent)

### Audio Output Connector

3.5 mm Stereo (Left = tip, Right = ring, Ground = sleeve)

### Minimum Load Impedance: 16 Ω

### Net Weight: 0.23 kg (0.52 lbs.)

### Overall Dimensions

27.18 mm X 64.52 mm X 85.09 mm  
(1.070 in. X 2.540 in. X 3.350 in.)

## Components

### P7T Wireless Transmitter

with rack-mounting hardware and detachable antenna

- Combined 1/4" and XLR Input Connectors
- Stereo Input Meter and Input Level Control
- Channel Select Control
- Mono/Stereo/MixMode Source Switch
- Earphone Connector and Volume Control
- LOOP Out Connectors
- Input Pad Switch

### P7R Wireless Body-Pack Receiver

with detachable antenna

- Balance Control
- Low Battery Indicator

## CONNECTORS

### P7T Audio Inputs (LEFT/CH.1 and RIGHT/CH.2)

<b>Connector:</b> (XLR and 1/4-inch combined)	XLR (female)	1/4-inch phone jack (female)
<b>Configuration:</b>	electronically balanced	electronically balanced
<b>Actual Impedance:</b>	20 kΩ	20 kΩ
<b>Nominal Input Level:</b>	+4 dBu (+4 input level) -10 dBV (-10 input level)	+4 dBu (+4 input level) -10 dBV (-10 input level)
<b>Maximum Input Level:</b>	+25 dBu (+4 input level) +13 dBu (-10 input level)	+25 dBu (+4 input level) +13 dBu (-10 input level)
<b>Pin Assignments:</b>	Pin 1 = ground Pin 2 = hot Pin 3 = cold	Tip = hot ring = cold sleeve = ground
<b>Phantom Power Protection?</b>	Yes Up to 60 VDC	Yes Up to 60 VDC

### P7T L/R LOOP Outputs

<b>Connector:</b>	1/4-inch phone jack (female)
<b>Configuration:</b>	electronically balanced
<b>Actual Impedance:</b>	20 kΩ
<b>Nominal Output Level:</b>	+4 dBu (+4 input level) -10 dBV (-10 input level)
<b>Maximum Output Level:</b>	+25 dBu (+4 input level) +13 dBu (-10 input level)
<b>Pin Assignments:</b>	Tip = hot ring = cold sleeve = ground
<b>Phantom Power Protection?</b>	Yes Up to 60 VDC

- Power LED
- ON/OFF/Volume Control
- RF LED
- Channel Select Control

### One Pair of E1 or E5 Earphones

with foam and flex-tip ear inserts

- Low-mass, high-energy transducers
- Universal fit
- Choice of isolating sleeves; Custom molded sleeves available
- Carrying pouch for convenient storage
- Adjustment tube for securing the cables
- Tool for removing wax buildup in the earphone