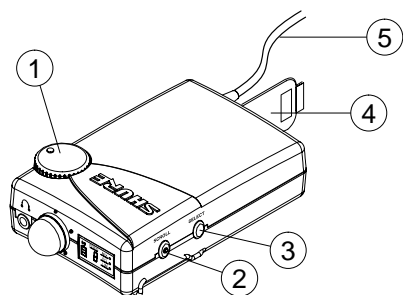


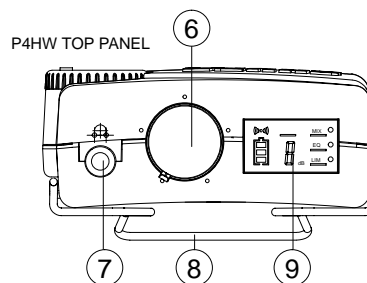
The P4HW is a component of the PSM® 400 family of personal monitors that provides the advantages of an in-ear monitoring system, including the following:

- **Improved Sound Quality** - high fidelity without the risk of feedback
- **Personal Control** - volume and mix are controlled from the bodypack
- **Portability** - clips to belt or guitar strap

MONITOR FEATURES



1. **Balance Knob:** This thumbwheel adjusts the left/right balance in stereo or the Mix 1/Mix 2 balance in Mix-Mode®.
2. **Scroll Button:** Scrolls through functions in the LCD screen (see table below).
3. **Select Button:** Sets functions in the LCD screen (see table below).
4. **Battery Compartment:** Contains one 9 V alkaline battery.
5. **Cable:** Attached female XLR "Y" cable for connection to audio sources.

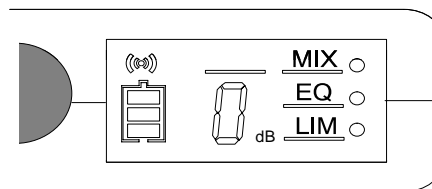


6. **ON/OFF/VOLUME Knob:** Turn clockwise past click to turn ON. Continue to turn clockwise to increase volume, counterclockwise to decrease volume.
7. **1/8" Stereo Earphone Output Jack:** Connects to earphones.
8. **Belt Clip:** Attaches the bodypack to a belt, guitar strap or waist band.
9. **LCD Screen:** Displays the current status of each function on the LCD screen (see table below).

LCD Screen Functions

The LCD screen displays the status of each function, as follows:

Symbol	Function	Status Indication
	Input Level Meter	<ul style="list-style-type: none"> • Signal present (•) Nominal (••) 6 dB below clipping
	Battery Life	High, Medium or Low
	Input Attenuation	0 for low level (-10 dBu) signals or -15 for high level (+4 dBV) signals
MIX	MixMode	On/Off
EQ	High Frequency Boost	On/Off
LIM	Limiter	On/Off



FURNISHED ACCESSORIES

XLR to 1/4" Adapter Cable (2) 90B8861

SPECIFICATIONS

Frequency Response

20 to 20,000 Hz

Total Harmonic Distortion

< .1% (measured at -10 dBu out)

Channel Separation

35 dB (minimum)

Signal-to-noise ratio

85 dB (minimum)

Maximum Input Level

+7 dBu, input pad OFF

+22 dBu, input pad ON

Input Impedance>40 k Ω **Maximum Output Level**

+5 dBu at 1% THD

Output Impedance $\leq 1 \Omega$ **Minimum Load Impedance**16 Ω **Audio Output Connector**

3.5 mm stereo (left=tip, right=ring, ground=sleeve)

Limiter Ratio

10:1

High Frequency Boost

+4 dB at 10 kHz

Power Requirements

9 V Alkaline battery (Duracell type MN1604 recommended)

Current Draw

20 mA minimum, 40 mA maximum

Battery Life

Up to 8 hours, volume dependant

Phantom Power Protection

Up to 60 VDC

CERTIFICATIONS

Authorized under the DECLARATION OF CONFORMITY provision FCC part 15 as a Class B digital device. Tested to comply with FCC standards. FOR HOME OR OFFICE USE. This product complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by Shure Incorporated could void your authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

This class B digital apparatus complies with Canadian ICES-003.

Eligible to bear CE marking.

Conforms to European EMC directive 89/336/EEC: Professional Audio Products Standard EN 55103 (1996); Part 1 (emissions) and Part 2 (immunity). The P4HW is intended for use in environments E1 (residential) and E2 (light industrial) as defined in European EMC standard EN 55103. It meets the applicable tests and performance criteria found in the standard for these environments. EMC conformance is based on the use of shielded interconnecting cables.

**N 108**