

P-Tag

The Sonitor® IPS P-Tag has been designed using feedback from hospital personnel, specifically to be worn by patients and personnel. The unique construction consists of a reusable electronics core and a disposable, single use (and waterproof) outer shell which makes the P-Tag safe, comfortable and economical to use.

Design

The low-cost, single patient disposable shell eliminates infection control issues, and the reusable core allows for repeated use of the electronics components.

P-Tag Core

The core contains the electronic circuitry for the Sonitor ultrasound-based indoor positioning system (IPS).

Protected against possible infectious contamination by the disposable outer shell, the core is designed for repeated use without the need for cleaning.



P-Tag Shell

The disposable shell is designed for single patient use. To eliminate battery handling concerns, disposable batteries are already installed.



The materials and shape have been chosen for wearable comfort as well as easy attachment and removal by authorized hospital personnel.



The P-Tag clam shell design snaps easily onto any standard patient wristband.

Use

The P-Tag clam shell snaps easily onto, and becomes safely attached to, any standard patient wristband, or similar band or lanyard.

Opening the disposable shell to remove the core requires a special tool, and renders the shell useless, thus preventing reuse of a potentially contaminated shell.

The removed core is now immediately ready for repeat use inside a new shell.

Specifications for Sonitor® IPS P-Tag

Order numbers

Core

- P-Tag Core 150 pack (box with five trays of 30 units each)	PAC-TCO-F001-150
- P-Tag Core 1500 pack (export box with ten P-Tag Core 150-packs)	PAC-TCO-F001-1500

Shell

- P-Tag Shell kit 150 pack (bags with 150 outer shells with batteries and 150 waterproof seals)	PAC-TSK-F001-150
- P-Tag Shell kit 1500 pack (export box with ten P-Tag Shell kit 150 packs)	PAC-TSK-F001-1500

Dimensions

Core	1.15 x 0.54 in.	29,2 x 13,8 mm	(Diameter x H)
Shell	1.37 x 1.45 x 0.69 in.	34,8 x 36,8 x 17,6 mm	(L x W x H)

Weight

Shell	0.303 oz.	8,6 gr.
Core	0.134 oz.	3,8 gr.
Total weight	0.437 oz.	12,4 gr.

Ultrasound communication

Frequency range	from 35 to 45 kHz		
Sound pressure	up to 115 dB SPL (ref.20 uPa, programmable)		
Directivity	80 degrees		
Nominal range	up to 45 feet	up to 15 meters	programmable
Max range	90 feet	30 meters	
Transmission (beacon) rates	Typically 10, 20 or 30 seconds depending on need for update frequency and desired battery life.		

Programming and modification

ID and interval settings are field programmable and readable (special tool required).

Tag Identification

P-Tag Core holding long unique factory ID in barcode format CODE-128.

Power

Battery type	Primary cell		
Technology	Alkaline, Button type		
Example of type	2 x GPA76P Batteries		
Nominal voltage and capacity	3.0 VDC, 140 mAh @ 20 mA		
Battery lifetime	Depends on update frequency; 12 days with a 10 second transmission rate, 24 days with a 20 second transmission rate.		
Disposal	Dispose of used batteries according to manufacturer instructions and local regulations.		

Environmental

Operating temperature	+50 to +122°F	+10 to +50°C
Storage temperature	-4 to +140°F	-20 to +60°C

Attachment methods

Onto regular patient wristband (max width 1.18 in./30 mm)

Shell

Material	K-Resin®, KR01
Color	Light grey (Pantone 427C)

All specifications are subject to change without notice. Please check www.sonitor.com for updates.

