



**SAFETY**



## The PT-TAG is a combined proximity detection and tracking tag which provides an all encompassing Safety and Tracking Solution

Using multiple detection technologies, our Tags provide the most accurate and flexible Proximity Detection and Collision Avoidance, Tracking, and Monitoring for the industrial environment.

The PT-TAG is a PAS (Proximity Alert System) and tracking tag which utilizes multiple technologies: RFID, Electromagnetics, GPS, and RADAR (technologies are model dependent). Our PT-TAGs can interact with personnel, vehicles, and other assets. Each tag will have a unique ID and can be configured to include the person's name when managed through Vantage. Vantage records any incidents/occurrences reported by the PT-TAG(s) and can then be exported as a report for review.

PAS also provides extensive user definable reporting and data analysis capabilities through its own custom software package by recording all events. PAS has an optional integrated issuing centre that provides automated site entry/exit monitoring and control for approved personnel and vehicles. ♦

### Features overview

- Rechargeable Lithium-Ion battery (charging stations available)
- Tracking (available in 915 or 868 MHz)
- Unique ID for each tag
- Integral Qi Wireless Charger
- Multiple tracking technologies utilized including RFID, Electromagnetics, GPS, and RADAR (model dependent)
- Compact size
- Audible and visual indications for battery level, proximity alarms, charging status and technologies active
- Advisory and Panic mode activation compatible with Tracking Solution
- Alarm acknowledgement and vehicle attachment compatible with PAS
- IP66 / NEMA 4 Enclosure

### PBE System Compatibility

- PAS
- Tracking System
- PBE Vantage
- Tag Test Stations
- Tag Issue Station
- Site Access Control
- Person-to-Person Social Distance Monitoring



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# PT-TAG

LEDs visible on the top of the device indicate the statuses of the various technologies: RFID, GPS, RADAR, and EM (Electromagnetics).

Technology utilization per tag function is as follows:

- PAS – utilizes GPS, RADAR, EM, and RFID
- Tracking System – utilizes RFID
- PBE Vantage - central management software recording all data gathered from our Tracking and PAS systems



**Social Distancing Report**  
Presents all interactions/events between e.g. Alan Heron and other personnel. Reports can be done on a daily basis.

Social Distancing Report - Alan Heron		
Date	Asset Name	Asset ID
01/06/20	B Smith	428
02/06/20	T Dallas	966
03/06/20	B Smith	428
03/06/20	M Hannan	143
03/06/20	N Shoemaker	754
04/06/20	M Hannan	143

Battery Indicator	
Capacity (%)	Indication
100	Steady Green
50-99	Single Flash Green
20-49	Single Flash Yellow
5-19	Single Flash Red
0-4	Double Flash Red

Technology Status				
Color	RFID	EM	GPS	Radar
Red	Attached to PAS-110 light bar	Invalid EM reception	On but no fixed GPS position	Radar out of range
Green	Attachment to PAS-110 light bar pending user acknowledgment	Valid EM reception	GPS position fixed	The tag recognizes a PAS system and the PAS system is picking up the tag
Blue	RFID packet transmitting	EM packet	GPS packet	The tag recognizes a PAS system but the PAS system does not register the tag

Specifications		
Operating Voltage:	3.7 Volts DC; rechargeable Lithium-ion battery	
Current	PT-TAG-GR	59.5 mA
Consumption	PT-TAG	14 mA
Estimated Battery Life <sup>1</sup>	PT-TAG-GR	30 hours
	PT-TAG	125 hours
Battery Charge Time	3.5 hours	
Technologies Utilized <sup>2</sup>	RFID, GPS, EM, and/or RADAR	
Sound Pressure Levels	Avg SPL @ 1ft: 71.9dB Max SPL (close range): 102.9dB	

- Estimates based on normal operation (inactive audible alarms, no tag attachment, and no panic condition)
- Model dependent

Frequencies <sup>2</sup>			
RFID and EM Loopback	Zone 1: 868.3 MHz	Zone 2: 915 MHz	Zone 3: 920 MHz
EM Receive	All Zones: 122.1 kHz		
Radar	Zone 1: 4500 MHz	Zone 2: 4500 MHz	Zone 3: 6500 MHz
RFID Range	Up to 61 m ( ≈ 200 ft)		
EM Range	Up to 9 m ( ≈ 30 ft)		
Radar Range	Up to 91 m ( ≈ 300 ft) line-of-sight		
GPS Accuracy	Autonomous = 2.5 m ( ≈ 8.2 ft) CEP SBAS = 2.0 m ( ≈ 6.56 ft) CEP		
Audible Alarm Range	10 m ( ≈ 33 ft) from PAS equipment (EM, GPS, and/or Radar)		
Enclosure Rating	IP66 / NEMA 4		
Dimensions	84.33 x 32.74 x 27.43 mm ( 3.32 x 2.47 x 1.08 in)		
Weight	87.2 g ( ≈ 0.19 lb)		
Warranty	1 year		

## About Us

PBE Group ("PBE") provide an adaptive and flexible integrated solution where a reliance on safety and productivity is essential. PBE is a true global systems provider for the mining, tunnelling, construction and associated markets. Our specialised engineering team integrates our industry specific manufactured products and best in class 3rd party products to ensure a sophisticated, robust and commercially viable solution. Our growth in international markets is based on the key verticals of Technology, Power and Service Delivery – fundamental in any industrial project. Our experience in confined space and underground construction has enabled PBE to complete over 850 projects in more than 60 countries with 320 staff and 18 regional offices. ♦

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