



## Par-Sec RFID Tags & RF Range Adjustment Tag

The Par-Sec asset and personnel tags employ Radio Frequency Identification (RFID) technology to send motion, tamper and low-battery information to Par-Sec readers.

The asset tags offer any organisation an economical solution to monitor asset movement, and to protect valuable property against unauthorised movement or removal.

### RFID Tags

The three RFID tags available with Par-Sec are the SAT Static Asset Tag, PAT Portable Asset Tag, and PET Personnel Tag. The SAT and PAT tags feature a tamper device that generates alarm conditions at the reader if attempts are made to remove them from an asset.

The Personnel tags also function as a lightweight badge or photograph identification holder but it is not recommended that other proximity cards are used as their integral aerial decreases the range of the PET.

### Features

- Employs wireless RFID technology
- Up to 30Mtrs. (100') detection range for movement and tamper of Static Asset Tags
- Programmable 0-18Mtrs. (0-60') detection range for Portable & Personnel Tags
- Compatible with third-party access control, asset management and intruder detection systems
- Alarm relay output rated at 24Vdc / 1 Amp

### SAT Stationary Asset Tag

The SAT has a detection range of up to 30Mtrs. (100') and is used to protect static items typically in exhibition halls, galleries and IT server rooms. The SAT has a motion sensor and tamper switch which when activated transmits data to the reader including the tags unique ID and the type of event. The SAT also transmits a routine report and battery condition to verify it is working satisfactorily.



### PAT Portable Asset Tag

The PAT protects property that is allowed to move about inside a designated area but is not intended to be removed from the place of work without an alarm and/or an audit trail event being created.

If a PAT moves into a pre-programmed security zone or area, for example an exit doorway, the Par-Sec reader detects the tag and sends the tags unique identification number to a connected access control or asset management system, from which, the system can sound an alarm, trigger a relay closure, and optionally activate a remote alarm or video camera/recording device.

The PAT's detection range can be programmed at the reader 0-18Mtrs. (0-60').

### PET Personnel Tag

The PET is used for long-range access control e.g. vehicular barriers and to track personnel location.

The PET's detection range can be programmed at the reader 0-18Mtrs. (0-60').

### RAT Range Adjustment Tag

The RAT is a durable field device that installation and commissioning personnel can use to adjust and test the detection range between the Par-Sec reader and RFID tags (PAT and PET tags only). The RAT is equipped with two replaceable AAA batteries.



## **Par-Sec RFID Tags & RF Range Adjustment Tag**

### **SPECIFICATIONS**

#### **Power**

- Asset Tags (SAT & PAT): 2 x 3 volt lithium non-replaceable batteries. Up to 2 years working life
- PET Personnel Tag: 2 x 3 volt lithium replaceable batteries. Up to 1 year working life
- RAT RF Range Adjustment Tag: 2 x replaceable AAA batteries.

#### **Dimensions (HWD)**

- Asset Tags (SAT & PAT):  
72mm (2.83") x 49mm (1.92") x 10mm (0.39")
- PET Personnel Tag:  
92mm (3.62") x 57mm (2.24") x 7mm (0.27")
- RAT RF Range Adjustment Tag:  
107mm (4.21") x 61mm (2.40") x 22mm (0.86")

#### **Weight**

- Asset Tags (SAT & PAT): 30g (1.06oz)
- PET Personnel Tag: 40g (1.41oz)
- RP-1 RF Range Adjustment Tag: 3.18oz (90g)

#### **Certification**

DTI Radio Communications Agency  
MPT1340 license exempt type approved.

Meets or exceeds:

- EN 50081: 1992 Emissions.
- EN 50082: 1992 Immunity

#### **Temperature Ranges**

Operating: -5° C (23° F) to 40° C (104° F)  
Storage: -10° C (14° F) to 70° C (158° F)

#### **Reader Format**

In order to utilize specific information from the tags such as routine report, movement event, tamper event, and battery condition, the 38bit Wiegand format reader must be used. Additionally, the controlling software e.g. access control system must be compatible with this specific reader format.

If a 26bit reader is used only the tag number will be transmitted no matter what the type of event, and some events will not be transmitted at all e.g. routine report and tag battery condition.

#### **RAT RF Range Adjustment Tag**

<b>Button</b>	<b>Description</b>
Find	Sets the RF detection range between the RAT and Par-Sec reader
+	Increases the detection range for SAT and PET tags
-	Decreases the detection range for SAT and PET tags
SEE	Confirms detection range between tags and the Par-Sec reader

Note that when adjusting the detection range for SAT & PAT tags, the tamper range is not affected and always remains at full range.

#### **Part Numbers**

PSRW26/2 26bit Wiegand Reader UL approved  
PSRW26-232/1 26bit Wiegand & RS232 Reader  
PSRW38-232/1 38bit Wiegand & RS232 Reader  
PSSAT/2 Stationary Asset Tag  
PSPAT/2 Mobile Asset Tag  
PSPET/1 Personnel Tag  
PSRAT/2 Range Adjustment Tag

#### **Customer Support**

Newmark Technology offer a full range of support services including site surveys, installation supervision and training.

#### **Newmark Technology Ltd**

Millars Three  
Southmill Road  
Bishop's Stortford  
Hertfordshire  
CM23 3DH  
United Kingdom  
Tel: +44(0) 1279 658000  
Fax: +44(0) 1279 504776  
Web: [www.par-sec.biz](http://www.par-sec.biz)  
Web: [www.newmarktechnology.com](http://www.newmarktechnology.com)