

Referee Paging System[®] RPS2056

User manual

The **REFEREE PAGING SYSTEM RPS2056** supports the linesmen to get the referee's attention by sending a radio frequency signal to the referee's receiver. The RPS2056 series is the follow-up model of the RPS2016/RPS2026 series.

The Transmitter (flag)

The transmitter is integrated in the handle of the linesman's flag and sends a coded signal to the referee's receiver. By pressing one of the two buttons, vibration can be felt on the handle to confirm the signal is being sent.

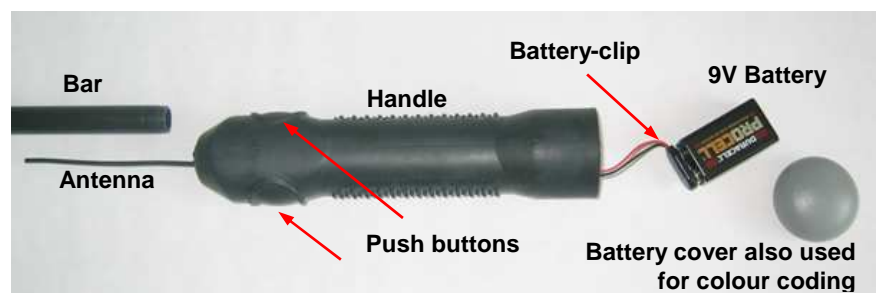
Check & operation:

- The following parts should be checked before each game:
 - Is the bar of the twisting unit in good condition, properly screwed in and not broken
 - Is the battery cover securely fastened and the rubber coat sealing the battery compartment properly
- Send a signal to the referee by pushing one of the two buttons on the handle to make sure the signal is transmitted and the receiver clearly detects the signal. The activation buttons are placed opposite and are easy to be pressed. They both have identical functionality. Either one can be used to activate the signal. By pressing one of them, vibration must be felt on the handle.



Changing the battery:

- Remove the battery cover by opening the bayonet closure counter clockwise about ¼ turn.
- Replace the battery
- Replace the battery cover with light pressure and ¼ turn clockwise
- Hint: Putting a little soap on the edge of the rubber of the handle might make it easier to put the cover back on again and locking it with the bayonet closure.
- Examine the firm seat of the rubber coat as the seat prevents water and dirt entering the battery compartment.



Replacing the bar:

- In case the bar of the twisting unit needs to be replaced, it can be replaced by the user
 - Remove the bar of the twisting unit by unscrewing it counter clockwise and replace it with a new one
 - Hint: Use a drop of soap on the thread to help screwing the bar back in again.
 - Make sure the antenna is put in properly

The Receiver (Pager)



The receiver (pager), mounted in a waterproof rubber case, is carried by the referee on the upper arm.

The attention signal, activated by the linesmen, generate either a low (linesman 1) or a high (linesman 2) acoustic signal and a pulsing vibration of the receiver. There are two different acoustic signals generated to identify linesman 1 or 2, the vibration is identical.

Switching On

- To switch the unit on, press and hold the ON / OFF button for about three seconds.
 - **Battery good:** The LED comes on green, a tone sequence with rising pitch can be heard, the unit vibrates several times with short impulses (normal operation).
 - **Battery low:** The LED comes on red, three deep tones can be heard, the vibrator does not come on (battery needs to be replaced).



Switching Off

- To switch the receiver OFF press the ON / OFF button until you hear a deep tone and the LED comes on red for a moment.

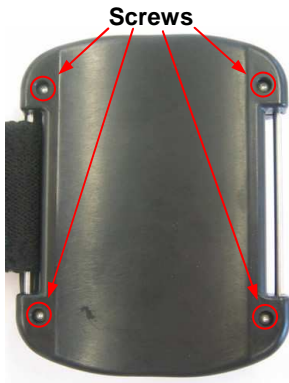
Note:

A new battery lasts for approx. 12 games. It is recommended to replace the battery after those 12 games to avoid unwanted malfunction during a game.

Indication of operation modes

- The LED indicates different operating modes and works as a battery status indicator also
 - LED OFF: Pager OFF or flat battery
 - LED flashing green: Pager ready for use
 - LED flashing red: Low battery, the battery should be replaced
 - LED single flash red: Unit is being switched off
 - LED orange ON: Pager is receiving a signal from a transmitter (flag)

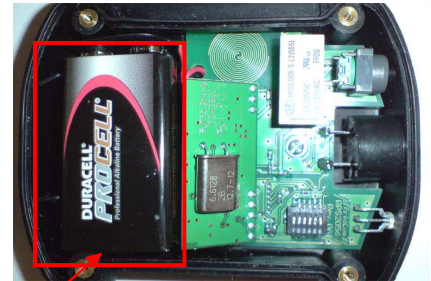
Changing the battery



The pager comes equipped with a 9V battery. To replace the battery, unscrew the four screws with the screwdriver supplied with the unit and lift the cover.

Disconnect the battery from the battery-clip and replace it with a new battery.

Attention:
In case of mismatching the polarity the pager might be damaged!



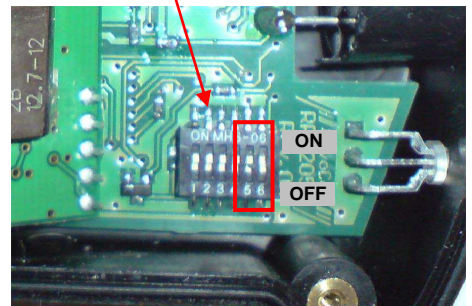
9V Battery

Beep settings:

Slide the switch very carefully. Too much force will break the switch making it impossible to slide again!

- **Switch 5** activates or deactivates the beep:
 - OFF: deactivated
 - ON: activated (default setting)
- **Switch 6** adjusts the volume:
 - OFF: high volume (default setting)
 - ON: low volume

Beep switch settings



Note:

Do not change the settings of switch 1 through 4 as they are used for system configuration. Switch 1 through 3 are used for color coding and switch 4 (default OFF) for system identification.

Attachment of the receiver



The receiver is usually worn on the upper arm. The elastic armband might wear out over time due to sweat. However, the armband can be easily replaced by the user.

To change the armband, remove the cover of the receiver, as if you would change the battery. Remove the axes and replace the armband.

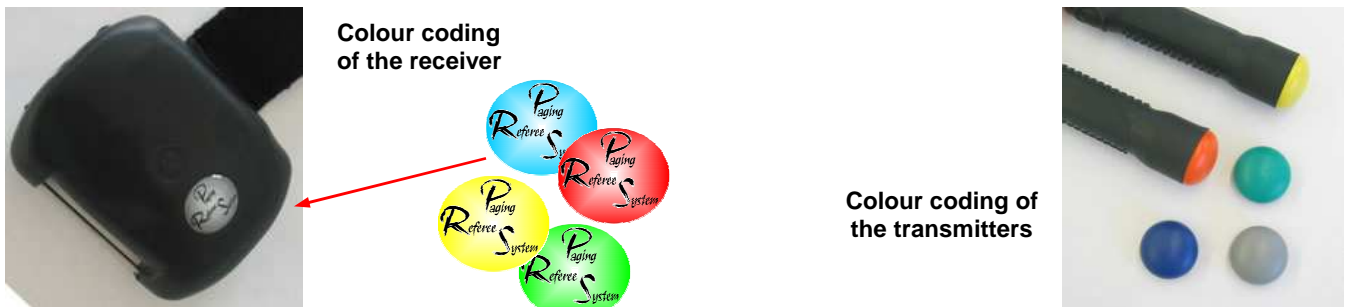
Coding

To prevent malfunction due to interference with other RPS systems and/or other sources, a complex coding and decoding system is used on the signals transmitted from linesmen to the referee. When both linesmen send a message exactly at the same time, or in case a strong transmitting source interferes with the system, no decoding takes place and no signal is activated at the referee's receiver.

Whenever games take place within 200 meters to each other, different colour coded RPS systems should be used to prevent interference. The coding configuration is preset by the manufacturer and should not be changed.

Color codes

The colour of the logo on the receiver and the colour of the battery cover of the transmitters (brown, red, orange, yellow, green, blue, grey or white) have to match. It is not possible to mix and match different colours.



System maturity and practical experience

The REFEREE PAGING SYSTEM is developed in co-operation with international referees and is successfully used since 1994. The ErvoCom RPS system is extremely reliable and therefore the number one choice of referees all over the world.

References:

- Olympic Games Atlanta; Seoul, Athena
- Football World Championship Japan and Korea, Germany
- Euro 1996 England / 2000 Holland and Belgium / 2004 Portugal, 2008 Switzerland and Austria
- Preferred equipment of FIFA referees

Warranty

One year warranty is provided on all material and production failure caused during normal use of the system. Warranty is excluded for batteries, for misuse or improper handling or maintenance of the system components. Other maintenance than exchanging of batteries, replacing twisting unit bars or armbands and cleaning components with a dry cloth is not allowed. The system manufacturer or his representative can not be made liable for damage caused by the use of this system.