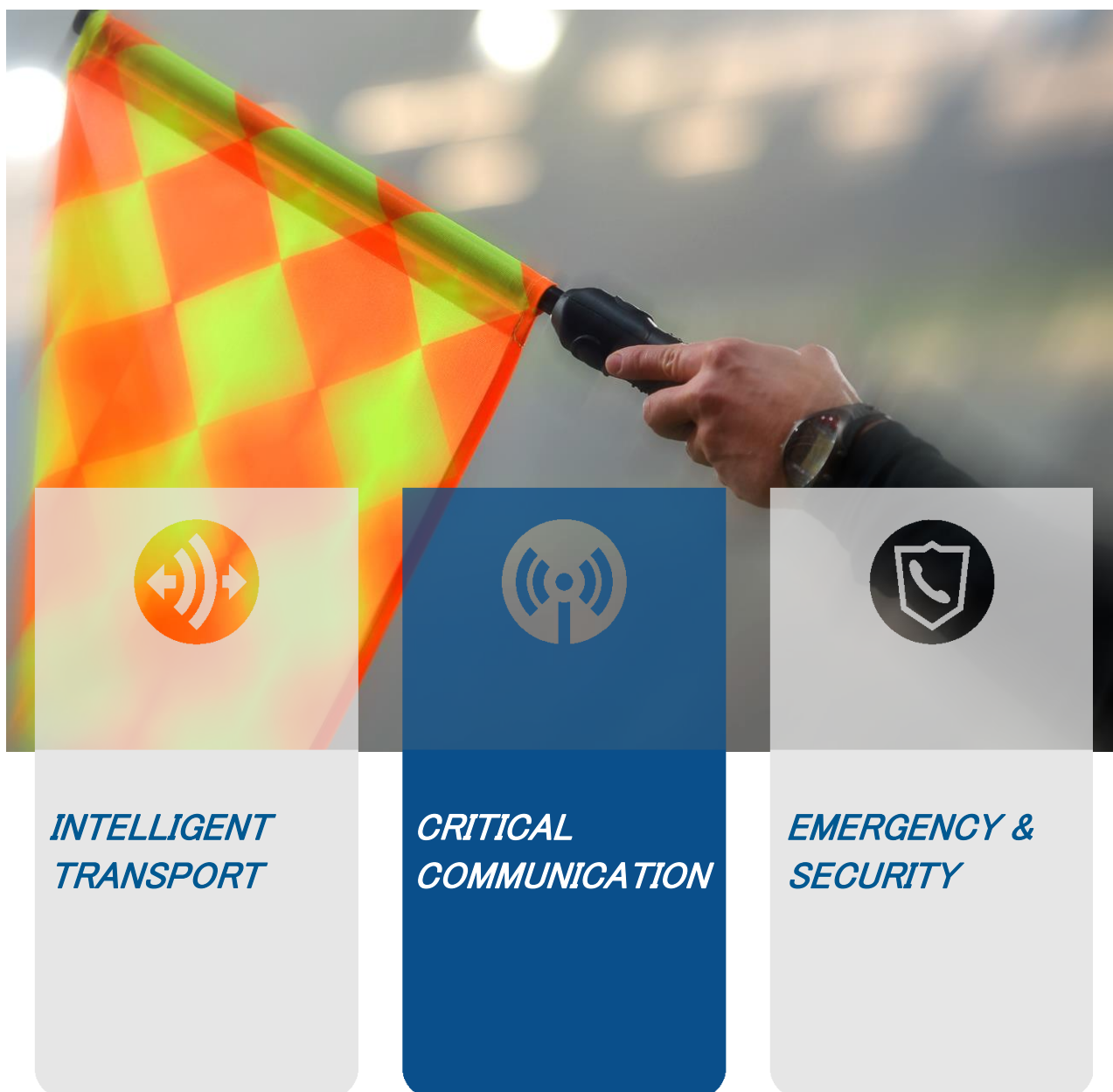


User manual
Referee Paging System[®]
RPS 2156



1. Overview

The **REFEREE PAGING SYSTEM RPS2156** is a radio connection with data transmission for sending electronic signalization from the assistant referee to the referee.

The **RPS2156** is the follow-up model of the **RPS2056** series.



2. The Assistant Flag (Transmitter)

The flag consists of various mechanical parts, as well as an integrated transceiver, which can send and receive messages. By pressing one of the two buttons on the flag handle a pulsating vibration starts. As soon as the pager receives the sent message, the flag handle will start a continuous vibration.

The flag stick is screwed into the handle and can easily be replaced. Also the battery cover (with bayonet lock) is unlocked and opened by first twisting and then removing the cover.



Check & Operation of the Transmitter



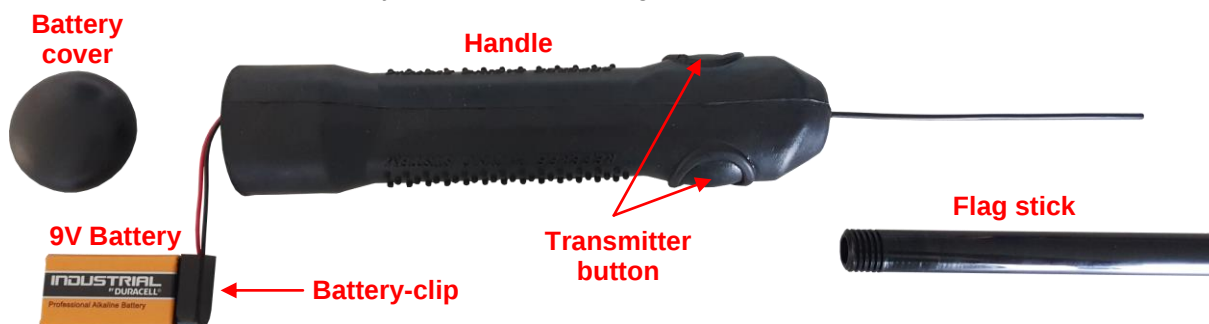
- It is recommended before each game to ensure that the following parts are properly tightened and in place:
 - Flag stick in the handle
 - Battery cover and rubber coat
- To send a signal push one of the two buttons. They are placed opposite one another, which allows for easy operation. By pressing one of the two buttons, vibration can be felt. For control, a constant pulsating vibration can be felt on the handle. The flag changes to a continuous vibration, as soon as the message has been received by the pager.

Changing of battery

- Remove battery cover by twisting it counterclockwise
- Carefully pull out the battery until the battery-clip appears
- Disconnect the old battery from clip and replace through new one
- Fasten battery cover by turning it clockwise with light pressure into the handle
(The usage of a bit of oil on the edge of the rubber makes it easier to fasten!)
- Ensure that rubber coat is in place
- Recommended battery type: 9V Alkaline or Lithium
(It is not recommended to use carbon-zinc or rechargeable batteries)

Replacing of flag stick

- Removing: Turn flag stick counterclockwise out of the handle
- Insertion: Turn flag stick clockwise with slight pressure into the handle
Attention: Put a drop of oil onto the thread and ensure that the antenna has been correctly inserted into the flag stick!



Setting of the BEEP's

- The pitch and the volume can be set separately for each flag
- The configuration can be performed via rotary switch, which is located in the inside of the flag. It allows for the setting of two different volume and three different pitch levels.
- In order to change settings of the rotary switch remove the battery cover and pull out the battery. The rotary switch should then be visible in the inside of the handle.
- With the help of a screwdriver the position of the rotary switch can be easily changed.

Important:

The right hand end of the screw driver tool should not be used to open the flag housing. Please use a standard phillips head screwdriver for opening the flag housing.



Incorrect use of this tool is not covered by warranty!

- The following settings are possible:

Switch Position:	Pitch Level:	Volume:
0	high pitch (RPS2056 tone)	loud (with vibration)
1	medium pitch (RPS2056 tone)	loud (with vibration)
2	low pitch	loud (with vibration)
3	high pitch (RPS2056 tone)	muted (with vibration)
4	medium pitch (RPS2056 tone)	muted (with vibration)
5	low pitch	muted (with vibration)
6	no sound, vibration	vibration
7	no sound, vibration	vibration
8	no sound, vibration	vibration
9	no sound, vibration	vibration

- It is recommended to test the new configuration directly with the pager to ensure that settings are correct
- Once the configuration is completed, put the battery cover back onto the handle.

3. The Pager (Receiver)

The receiver is located in a small case (pager) and is worn on the upper arm by means of the integrated arm strap.

When the pager receives a signal from one of the Assistant flags, you will hear a "beep" sound and a vibration can be felt.

By removing the bottom plate, both the battery as well as the arm strap can easily be removed.



Switching-on of Pager

- To turn the pager on, the on/off button needs to be pressed until a high pitch can be heard. Briefly pressing the button is sufficient.
- During the power-on the pager automatically checks the battery. The result of the check is displayed as follows:
 - Battery level ok:* the LED is green, a start-up tone will sound and the vibrator vibrates with a short pulse.
 - Battery level low:* the LED is red, a start-up tone will sound and the vibrator vibrates with a short pulse.
 - Battery is empty:* the LED is red, a low tone sounds and the pager turns itself off again.

Operation of Pager

- The operating status is indicated by a LED.
 - LED flashes green once: Pager ready, battery is good
 - LED flashes red twice: Battery should be replaced as soon as possible
- If a signal from one of the assistant's flags is being received, the LED will light up orange. A steady tone will be heard and the pager vibrates.

Switching-off of Pager

- To turn off the pager after use, the on / off button must be pressed for approximately 1s until the red LED lights and a high-pitched tone is heard. After that, the button can be released and the pager turns off. This is apparent through a second lower tone.
- If no signal is received over a period of 70min, the pager switches itself automatically off.

Inserting / changing the battery



The pager is equipped with a 9V battery. After loosening the 4 Phillips screws on the bottom plate with the enclosed screwdriver, the bottom plate can be removed by gently lifting. The battery can be inserted from above. It is important to ensure that the battery is correctly connected, as device can be damaged when it is connected incorrectly.



4. Positioning of Pager



To fasten the pager on the arm, the in the housing integrated arm strap is used.

After the arm has been insert through the loop of the arm strap, the pager can be positioned on the upper arm and then fixed into place by tightening the arm strap.

5. Programming of Pager

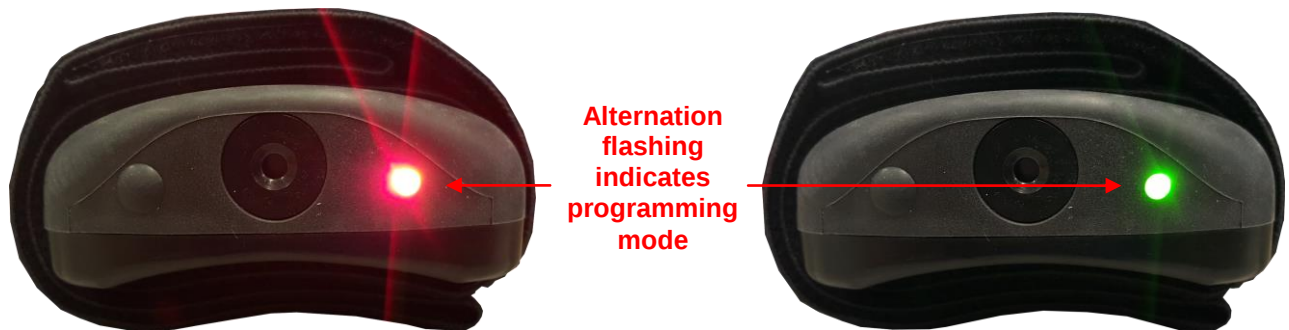
Each assistant flag has its own identity (ID). This ID can be programmed to the pager so that it responds to the signaling of the flag. Up to 10 flag IDs can be programmed to a pager. This allows the pager to respond to 10 different flags. Since each flag has a specific identity, there is no interference between different systems.

Programming process:

- Switch pager off (if turned on)
- Press on/off button and hold for 10 sec until the LED alternate between green and red
- Choose flag and press transmit button --> flag is being programmed
- The flag ceases to vibrate and a soft tone can be heard
--> Programming was **successful**
- Repeat procedure until all flags are programmed
- Confirm the programming of the flags by pressing the on/off button.
- The pager is now in the normal operation mode and can be used with the programmed flags

**Please pay attention to the following points:**

- If no flag is programmed or the programming is **not** confirmed within one minute, the pager will automatically leave the programming mode and the prior configured flags are being discarded. The previously existing programming remains.
- When programming new flags, all previous flag IDs are being deleted. Therefore with each new programming, always program all of the required flags.
- It is possible to program one flag to different pagers



6. Warranty Conditions

A two 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.

Note: High power transmission equipment operating nearby on the same frequency as the Referee Paging System will interrupt or prevent the correct operation of the system. Such problems are a consequence of the local environment and as such cannot be resolved through repairs.

7. Repair

In case of a defect, contact your local dealer or send the equipment with the Customs declaration indicating "REPAIR" to:

ErvoCom Schweiz AG
Abteilung Service + Reparatur
Mühlestrasse 23a
Postfach 236
CH-8855 Wangen

To request a repair, please complete the "Request for repair" form which is found on our website at <http://www.ervocom.ch/>. Including it when shipping the product.

Please note that ErvoCom AG does not accept costs for shipping and / or customs.

8. Identification of Disposal





9. EC-Declaration of Conformity

Erklärung Nr.: 102.16.01 Declaration No.: Déclaration No.:			
EG-Konformitätserklärung <i>EC- Declaration of Conformity</i> <i>CE- Déclaration de conformité</i>			
Wir <u>ErvoCom Engineering AG</u> <i>We/Nous (Name des Anbieters / supplier's name / nom du fournisseur)</i> Firststrasse 29 CH - 8835 Feusisberg <i>(Anschrift / address / adresse)</i>		erklären in alleiniger Verantwortung, dass(die) Produkt(e) <i>declare under our sole responsibility that the product(s) / Déclarons sous notre seule responsabilité, que le(s) produit(s)</i> RPS2156-2, RPS2156-3, RPS2156-5 <i>bestehend aus den Unterbaugruppen / comprising of its sub-units</i> RTP2156, RTF2156	
Diese Konformitätserklärung entspricht der Europäischen Norm EN 45014 "Allgemeine Kriterien für die Konformitätserklärungen von Anbietern". Die Grundlage der Kriterien sind internationale Dokumente, insbesondere ISO/IEC-Leitfaden 22, 1982, "Information on manufacturer's declaration of conformity with standards or other technical specifications". This Declaration of Conformity is suitable to the European Standard EN 45014 "General criteria for supplier's declaration of conformity". The basis for the criteria has been found in international documentation, particularly in: ISO/IEC Guide 22, 1982, "Information on manufacturer's declaration of conformity with standards or other technical specifications".		<i>(Bezeichnung, Typ oder Modell, Los-, Chargen- oder Serien-Nr., möglichst Herkunft und Stückzahl name, type or model, batch or serial number, possibly sources and number of items nom, type ou modèle, N° de lot ou de série, si possible l'origine et quantité)</i> mit folgenden Europäischen Richtlinien übereinstimmt (übereinstimmen): <i>is (are) in conformity with the following directives: / Répond(ent) aux directives suivantes:</i> Niederspannungsrichtlinie Nr. : 2006/95/EG Low Voltage Directive No.: 2006/95/EC Directive Basse Tension N° : 2006/95/CE EMV Richtlinie Nr.: 2004/108/EC EMC Directive No.: 2004/108/EC Directive CEM N°: 2004/108/CE	
Cette Déclaration de conformité correspond à la norme européenne EN 45014 "Critères généraux pour les déclarations de conformité des fournisseurs". La base des critères sont des documents internationaux, en particulier le guide 22 ISO/IEC de 1982, "Information on manufacturer's declaration of conformity with standards or other technical specifications".		Dies wird nachgewiesen durch die Einhaltung folgender Norm(en) <i>This is documented by the accordance with the following standard(s)</i> <i>Justifié par le respect de la (des) norme(s) suivante(s)</i> EN 300 220-3 V1.1.1 (2000-09) EN300 220-1 V1.3.1 (2000-09) ETSI EN 301 489-1 (2000) ETSI EN 301 489-3 (2000) EN 60065:98	
Änderung Revision Révision 1.0		The equipment is to mark with the Approval mark: <u>CE</u> All essential radio test suites have been carried out.	
Feusisberg, 17.05.2016 <i>(Ort und Datum der Ausstellung)</i> <i>Place and date of issue</i> <i>Lieu et date de l'édition)</i>		<i>(Titel und/oder Nr. sowie Ausgabedatum der Norm(en) oder der anderen normativen Dokumente)</i> <i>Title and/or number and date of issue of the standard(s) or other normative document(s)</i> <i>Titre et/ou numéro et date d'édition de la (des) norme(s) ou autre(s) document(s) nominatif(s)</i> MDI S&M Erich Vogt <i>(Name und oder gleichwertige Kennzeichen des Befugten / name and signature or equivalent marking of person / Nom et signature ou signe équivalent de la personne autorisée)</i> CHE R&D Andreas Christen	