

Application Note - AN104

Commissioning of a *PlaneTRack* ADS-B Receiving Station

0. General

This Application Note describes the commissioning of Planevision Systems *PlaneTRack* receivers and antennas.

0.1 Applicability of Application Note

Planevision Systems device	Applicable	Remark
PlaneTRack, all types	Yes	

0.2 Record of Revisions

Version	Date of issue	Revision
1.0	24 Jan 2016	Initial release
1.1	01 Jul 2016	Antenna earth
1.2	29 Dec 2016	Editorial



Fig.1 - PlaneTRack ADS-B Receiver Type RDM rear view

1. General Instructions

PlaneTRack ADS-B receiving stations SHALL be wired according to Fig. 2. Please note that Type B, BDM and RDM receivers may have a different number of outlets and outlets may be differently positioned on the particular receiver.

2. Protective Earth

PlaneTRack ADS-B Receivers SHALL be operated on earthed power sockets together with IEC C13 earthed power cables only. The receiver is a VDE CLASS I device. Please read the Operating Manual carefully when operating on a non IEC (Schuko) outlet. Ensure an earthed connection at any time.

Due to the variety of international sockets, connectors and cable types please observe:





- This device is designated as VDE Class I (unisolated).
- To avoid a safety hazard the case of the device MUST be connected to Protective Earth at any time of operation.
- It is NOT PERMISSABLE to operate the device at any time with a mains power plug in an unearthed socket.
- The device is delivered with mains cables of
 - plug type IEC C13 on the device side and
 - plug Schuko type (CEE 7/7) on the mains side

These cables can be plugged into certain socket types that **DO NOT ESTABLISH** a Protective Earth connection, i.e. among others

- DS 60884-2-D1 (Type K), used in e.g. Bangla Desh, Denmark, Greenland, Färöer Is., Guinea, Madagascar, Maledives, Senegal, St. Vincent
- BS 546/5A (Type D), used in e.g. India, Nigeria, Pakistan, South Africa
- various types in the Russian Federation and the CIS

It is NOT PERMISSABLE to operate the device in such a configuration. Such configuration constitutes an unapproved use of the device.

The user MUST PROVIDE a conformal configuration by means of adequate and approved power cables or adaptors.

-  Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan
-  Apparatet må tilkoples jordet stikkontakt
-  Apparaten skall anslutas till jordat uttag
-  Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord.

3. Frame Earth

Frame Earth on the Receiver rear panel (M8 bolt) shall be connected to an adequate Earth point according to Fig. 2. This Earth point shall also be connected to the Surge Protectors in the Antenna lines.

4. Antenna Earth

The ADS-B antenna shall be connected to Earth preferably directly at the antenna pole.

DISCLAIMER

Planevision Systems ADS-B equipment is not intended and not certified for air traffic control, navigational or other aircraft on-board services or other life critical services and in no case may be used for any other but sole information purposes.

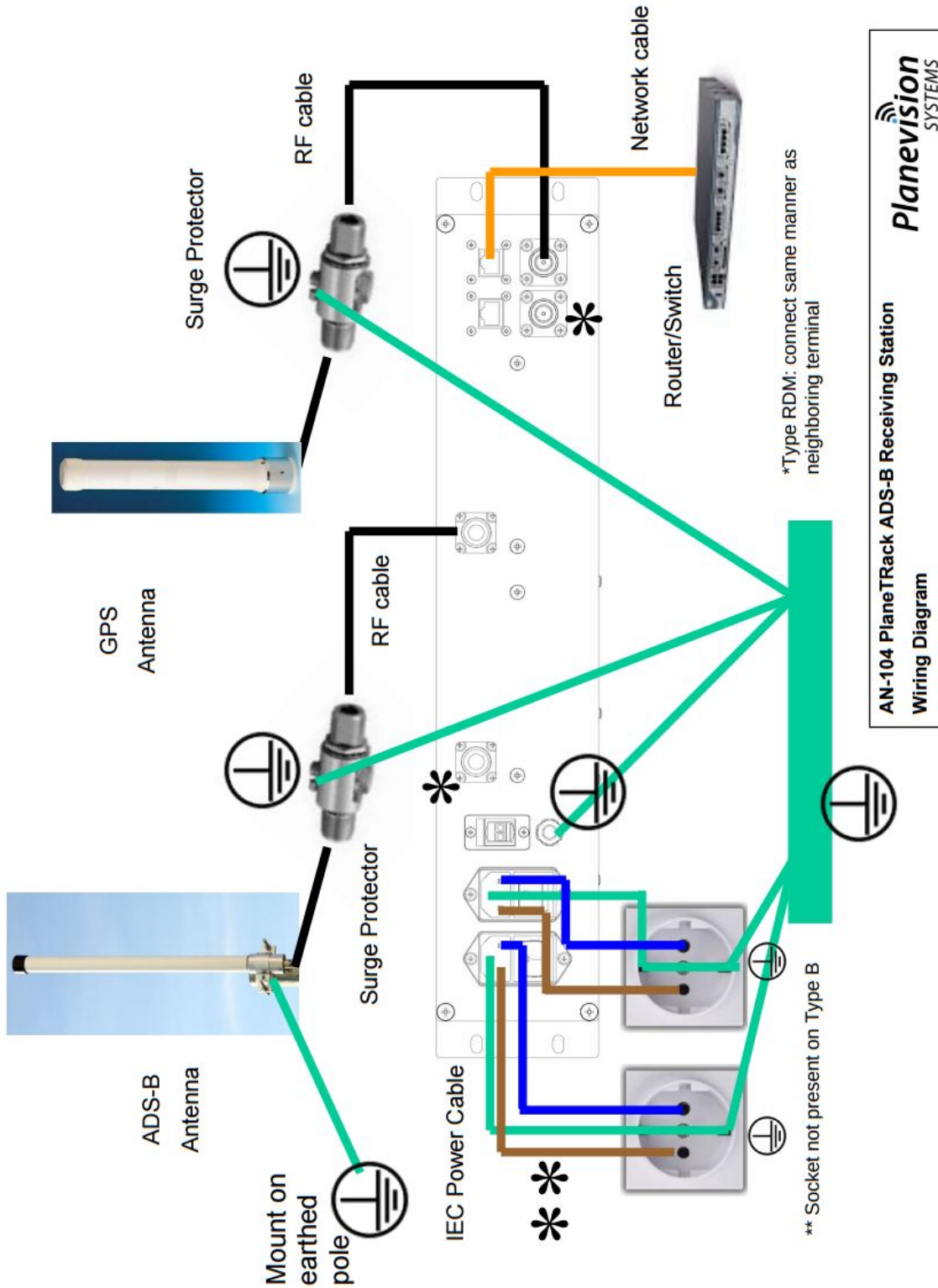


Fig.2 - PlaneTRack ADS-B Receiving Station Wiring Diagram