INSTALLATION GUIDE

AIS PILOT PLUG PINOUT

(VERSION 1.00, AUGUST 2015)
1. INTRODUCTION

This instruction describes pinout of the **AIS Pilot Plug** on both sides: AIS Class A transponder and Pilot Plug clients (AIS Wi-Fi Routers or Pilot Plug USB cable for laptops).

2. AIS CLASS A ‘PILOT PLUG’ PINOUT

AIS Class A Pilot Plug could be available onboard via dedicated AMP “Male” connector on the AIS MKD:

or via wired Pilot Plug AMP “Male” connector at the Pilot operation place:

**AIS Class A** Pilot Plug Pinout, AMP Male connector:

**Pilot Plug AMP Male (view to the connector):**

- Pin 1 - TxA – Grey
- Pin 4 - TxB – Red
- Pin 5 - RxA – Black
- Pin 6 - RxB – Yellow

*PS: colors may vary*
2. CLIENT ‘PILOT PLUG’ SIDE PINOUT

The Pilot Plug client side connector could be following:

- AIS Pilot Plug Wi-Fi interface adapter:

- Pilot Plug – USB cable for connections to laptop:
AIS Class A Pilot Plug Pinout, AMP Female connector:

**Pilot Plug client cable**

![Image of a 9-pin AMP female connector with pin numbers 1 to 9 marked in red]

**Pilot Plug AMP Female (view to connector):**

- Pin 1 - TxA – Yellow
- Pin 4 - TxB – Green
- Pin 5 - RxA – Orange
- Pin 6 - RxB – Brown

**PS:** colors may vary

AIS Class A Pilot Plug Pinout for the DB8 Female connector:

![Image of a DB9 female connector with pin numbers 1 to 9 marked]

**DB9 Female:**

View looking into female connector

**Rear (Wiring) Side**
4. USING THE PILOT PLUG

- Connect the **Pilot Plug AIS Wi-Fi**’s lead to the Pilot Plug on the AIS Class A Transponder (see image of a typical Pilot Plug). NOTE: On some installations, the Pilot Plug socket maybe mounted on the transponders connection box or attached to a panel close to the AIS Class A.

- Set the **Pilot Plug AIS Wi-Fi Interface** power switch to [ON].

- To connect to **Pilot Plug AIS Wi-Fi Interface**, simply scan for wireless hotspots on your iPad and select connection to the corresponding SSID “Transas-Pilot-XXXXX” as shown on the example below:

![iPad Wi-Fi settings](image)

The **Pilot Pilot AIS Wi-Fi Interface** uses the TCP or UDP protocol to transmit serial NMEA data and **Transas Pilot PRO** app supports data reception via TCP or UDP protocol as well.
Once you have wirelessly connected your mobile device to the Transas Pilot AIS Wi-Fi Interface, you will need to run the Transas Pilot PRO application on your iPad device and specify connection settings in the “Settings” / “Sensors” menu item (either TCP or UDP mode):

- Tap on the arrow to create connection.
- Tap on the arrow to Add new connection in the list.
- Create new connection.

For **TCP** you will need to enter Name of the connection, both the **IP Address** and **Port number**: as shown on example below for the Transas Pilot AIS Wi-Fi router and for **UDP** you just need the port number:

<table>
<thead>
<tr>
<th>IP Address</th>
<th>Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>169.254.1.1</td>
<td>2000</td>
</tr>
</tbody>
</table>

Tap [Back] button and check that your connection is established.
For **UDP** you just need the Name of the connection and Port number:

Port \hspace{1cm} 2000

Tap [Back] button and check that your connection is established.

- You should now be able to receive the AIS Class A data wirelessly: Own ship data once per second (**VDO1,2,3** sentences – LAT/LON/COG/SOG and HDG & ROT (if available); or Targets data via **VDM** sentences, depends on their availability in the AIS VHF range.)