# INSTALLATION GUIDE

## AIS PILOT PLUG PINOUT

**(VERSION 1.00, AUGUST 2015)**



TRANSAS

# 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" connecter on the AIS MKD:

or via wired Pilot Plug AMP "Male" connecter at the Pilot operation place:

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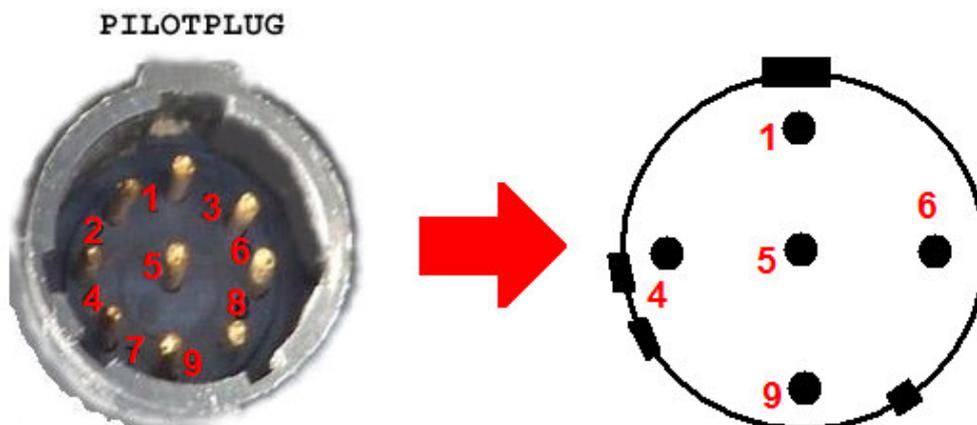
**PILOTPLUG**

**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
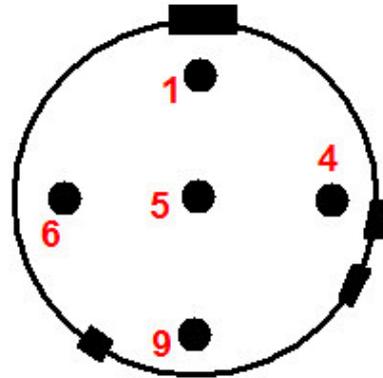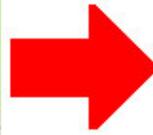


## Pilot Plug AMP Female (view to connector):

**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:



TxA

TxB

**DB9 Female:**

**Rear (Wiring)**
**Side**
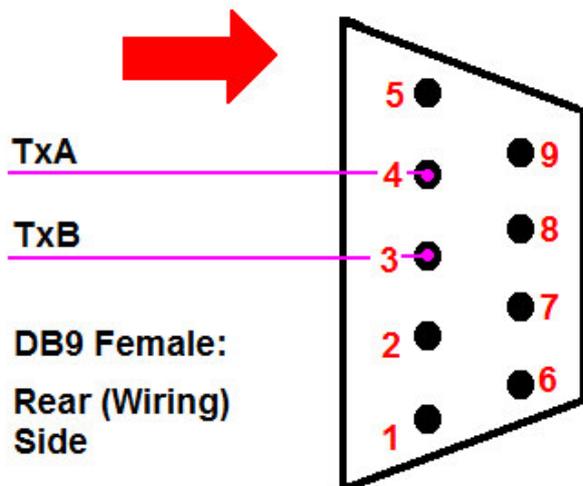
**DB9 Female:**

**View looking into**
**female connector**

# 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**].



**AIS Class A Pilot Plug**

- 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:
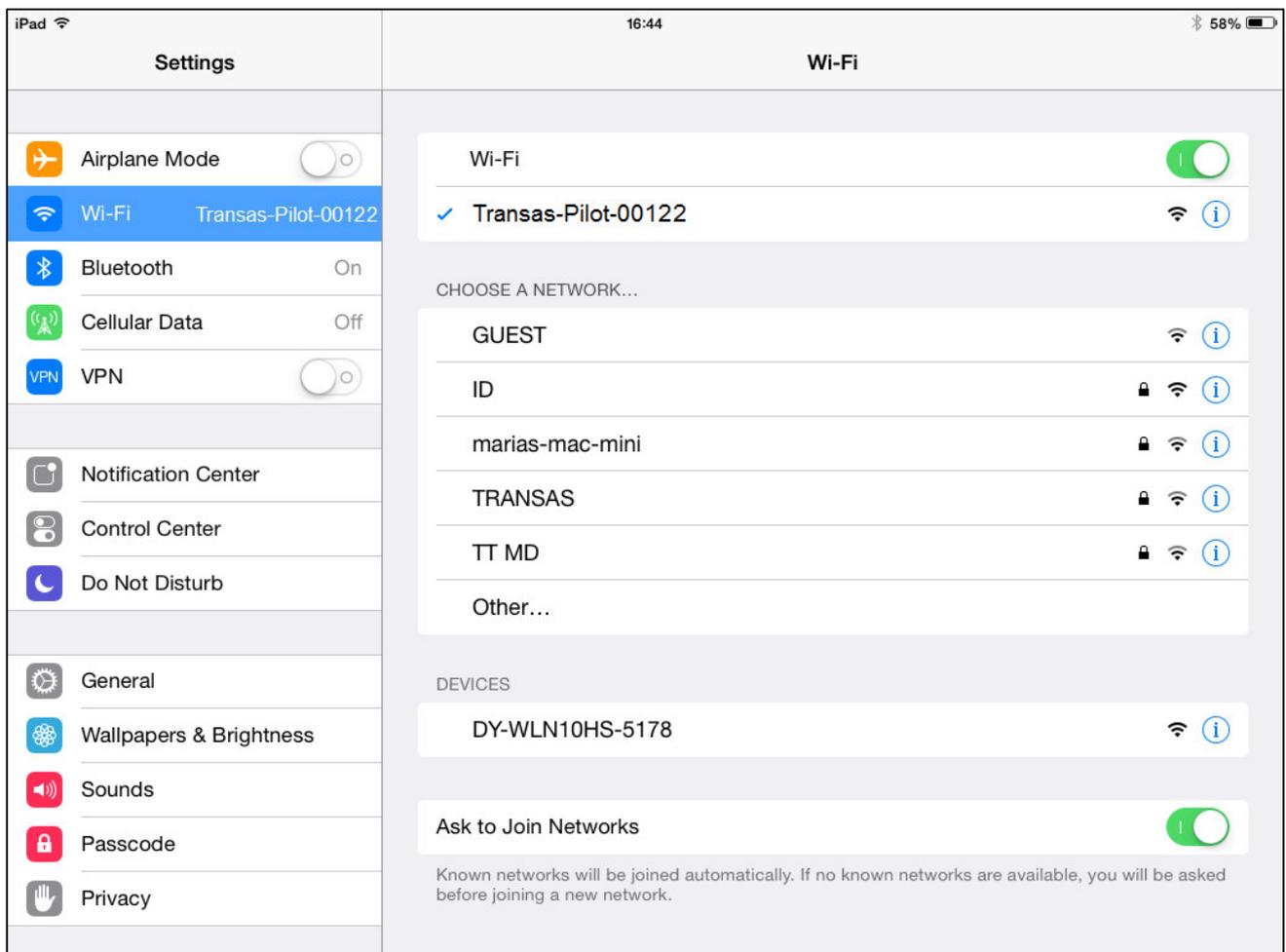


The **Pilot Pilot AIS Wi-Fi Interface** uses the TCP or UDP protocol to transmit serial NMEA data and **Transas Pilot PRO** app supports data reception via TCP or UDP protocol as well.

- 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):
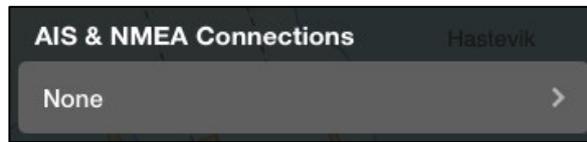


**Tap on the arrow to create connection.**
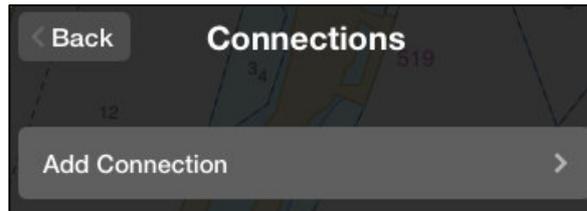


**Tap on the arrow to Add new connection in the list.**
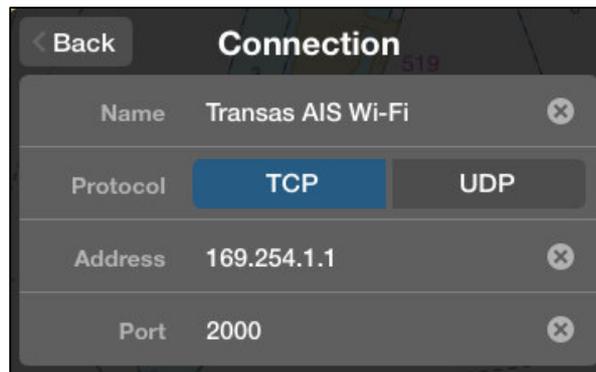


**Create new connection.**

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;

**IP Address**                                                    -          **169.254.1.1**
**Port**                                                              -          **2000**
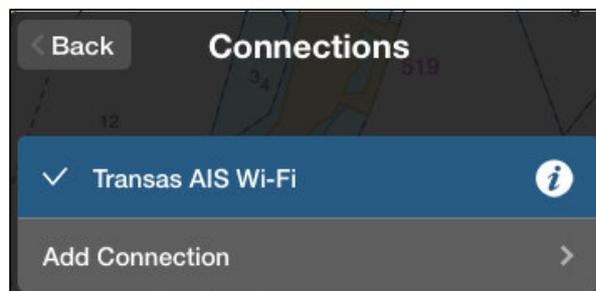


**Tap [Back] button and check that your connection is established.**
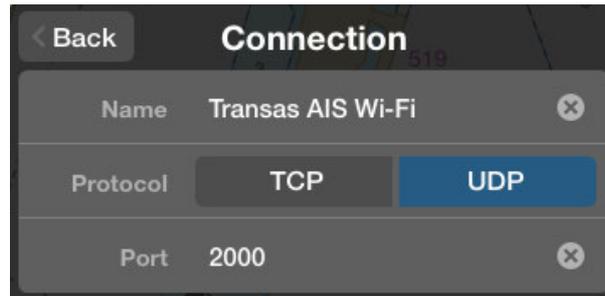
For **UDP** you just need the Name of the connection and Port number:

**Port** - **2000**
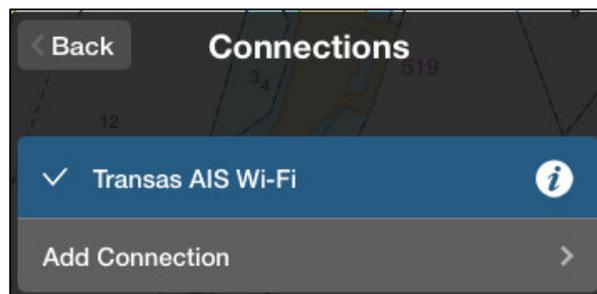


**Tap [Back] button and check that your connection is established.**

- 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.