INSTALLATION MANUAL

TRIG TY91/TY92 (TC90) - Adapter BLE Bluetooth

SkyDemon (SD) · **EXPERIMENTAL**

Bluetooth Low Energy adapter (BLE) that handles the data transfer between the navigation software and a TRIG TY91 / TY92 VHF transceiver (aviation radio) (BLE ↔ RS-232). The adapter simply connects to the radio – **no further electrical work required.**

SPECIFICATIONS

RADIO	TRIG TY91 / TY92
OPERATING SYSTEM	Android · iOS
INTERFACE	BLE ↔ RS-232
POWER SUPPLY	via the radio · 12/24 V
INTEGRATED FUSE	yes · not self-resetting
DIMENSIONS	48 × 45 × 17 mm

IMPORTANT
This is a prototype for experimental use only!

1 Radio Configuration

No further configuration is required on the radio.

2 Firmware Requirements

The adapter works from firmware 1.5 of the TC90 control head onwards.

The current firmware version appears briefly after power-on. It should show at least **Controller v 1.5**.

3 Connector Pin Assignment

This is an excerpt from the TRIG installation manual:

PIN	SIGNAL	DIRECTION
1	Ground	–
2	TMAPA	Bidirectional
3	TMAPB	Bidirectional
4	Ground	–
5	RS232 Tx	Output
6	RS232 Rx	Input
7	Ground	–
8	Remote ON	Output
9	Power IN	Input
10	Power Ground	–
11	Reserved	–
12	Step Button	Input
13	Transfer Button	Input
14	Reserved	–
15	Reserved	–

Source: TRIG TY91/TY92 installation manual.

4 Configuration in SkyDemon

IMPORTANT

Do not pair the SD-Link in the Bluetooth settings

The SD-Link adapter is a Bluetooth Low Energy (BLE) device. BLE devices are not paired via the Bluetooth settings of your tablet or phone like regular Bluetooth devices such as headsets or speakers.

Therefore, please do not open the Bluetooth settings of iOS, Android or Windows to search for or pair the SD-Link there.

The connection to the SD-Link is set up exclusively within the navigation app itself, e.g. in SkyDemon, Sky-Map, VFRnav, EasyVFR or another supported app. Pairing at operating-system level is not required and can even prevent the connection.

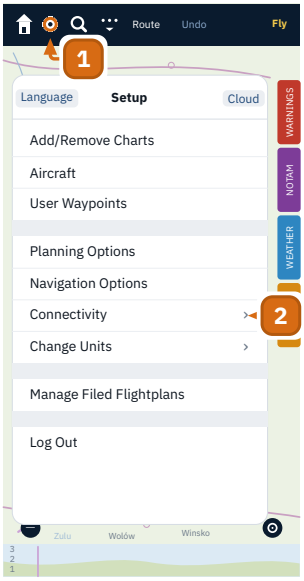
Regular Bluetooth devices such as headsets, intercoms or speakers can still be used in parallel. They are paired via the operating system as usual. The SD-Link, however, is addressed directly by the navigation app.

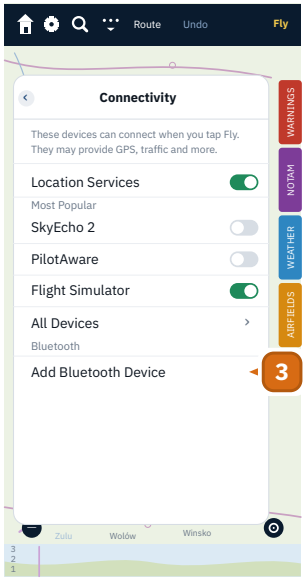
If the SD-Link has already been paired in the Bluetooth settings: Please remove the SD-Link completely from the Bluetooth device list of your tablet or phone. Do not pair it again via the operating system afterwards; instead, set it up again exclusively within the navigation app.

REMEMBER

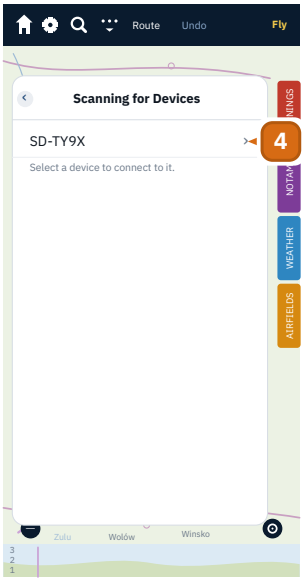
Do not pair the SD-Link in the operating system.
Always set up the SD-Link directly in the navigation app.

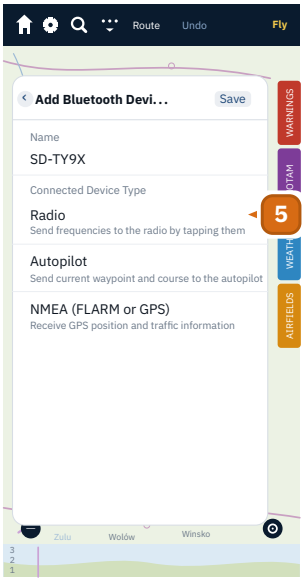
The figures below are schematic redrawings of the SkyDemon interface (iOS), not original screenshots. Orange numbered markers indicate the step to tap; a blue check marks an already-selected setting.





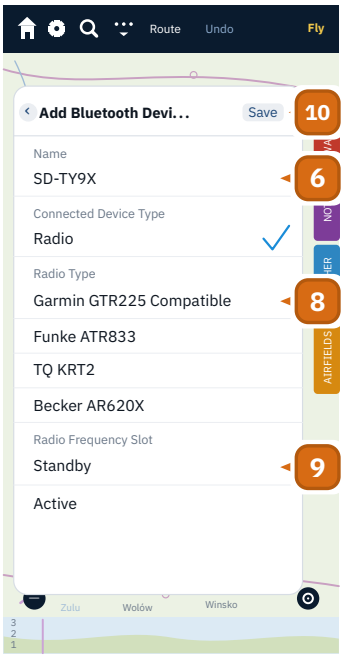
1. Open the Setup menu via the gear icon.
2. Choose Connectivity.
3. Under Bluetooth choose Add Bluetooth Device.





(4) Wait until the search has finished (this can take a moment), then select the entry **SD-TY9X**.

(5) As `Connected Device Type` choose **Radio**.



(6) The `Name` shown can be changed if you wish.

(7) The `Connected Device Type` is already set to **Radio** (blue check).

(8) As `Radio Type` choose the radio type **Garmin GTR225 Compatible**.

(9) Under `Radio Frequency Slot` choose whether the `Standby` or the `Active` frequency is set.

(10) **Save the settings with Save** — the adapter is now ready to use.

> **NOTE**
> `Set Active/Standby` determines which radio frequency tapped values are sent to. The `Radio Type` **Garmin GTR225 Compatible** is fixed for the SD-TY9X-E.

5 Contact

If you have any questions, problems or feedback, please contact us:

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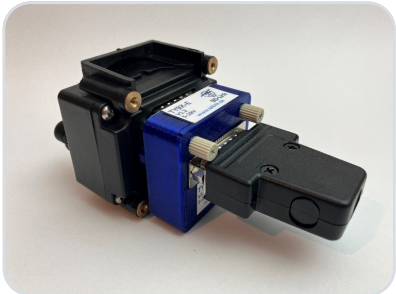

Dimensions