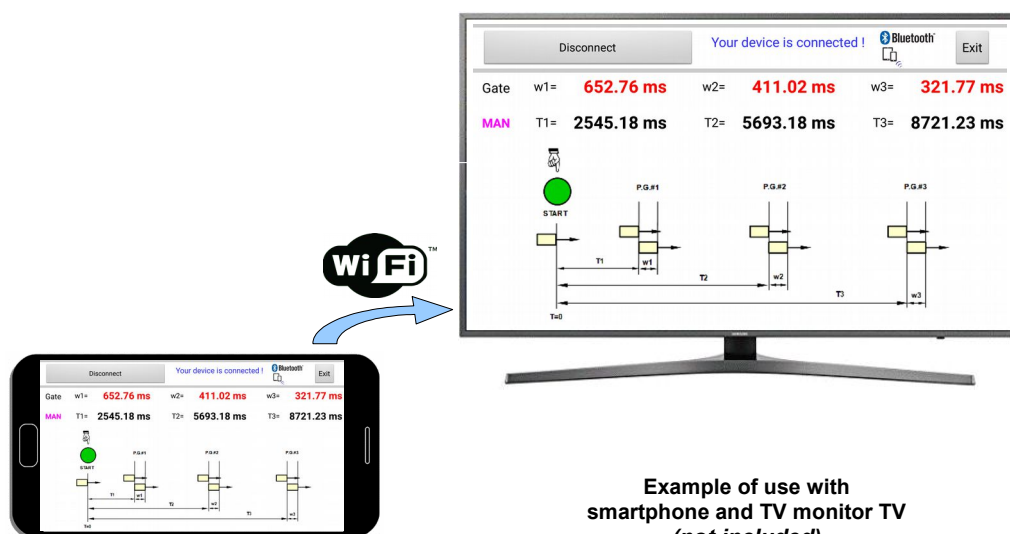# TEK4EDU Italy – Technology for Education

HDMI RECEIVER
mod.T4E-ACC-08

Accessories

**Example of use with
smartphone and TV monitor TV
*(not included)***

The **HDMI receiver mod.T4E-ACC-08** is a complete kit that can be used by the teacher during an exercise, to view all the operations performed on the screen of an Android device (smartphone or tablet) with a TV monitor, an IWB or video projector.

The teacher uses the App on the Android device and explains its operation to the students, while the same screen is transmitted and faithfully replicated on the larger monitor.

The HDMI receiver is connected to the monitor, which must have an HDMI port and a resolution of 1920x1080.

The connection between the Android device and the HDMI receiver is ***peer-to-peer***, ie direct, without the need to use a local WiFi network (or Access Point), and is also called *Wi-Fi Direct*.

It is ideal for use with:
- our **Process simulators** - *Easy* series mod.T4E-SIM-xx-E to show the App used to control the operation of the simulator or during the development / changes of the App with **MIT App Inventor**
- our Educational Shield for Arduino **EDU SHIELD** mod.T4E-ASB-02 to show the Apps used to control / monitor the shield or during the development / modification of the App with **MIT App Inventor**
- our digital **Timer** mod.T4E-BOX-01-BT to show all the acquired data simultaneously

Quick and easy setup:
- Connect the **power cable** to a USB 5V/0,5A monitor port (if available) or to the external power supply (included)
- Insert the **Receiver** into an HDMI port on the monitor
- Select the HDMI input used on the monitor
- Install the Communication **App** downloaded from **Play Store** on your Android device
- Open the **App**, press the button on the Receiver, connect by WiFi to the Receiver by entering the password that appears on the screen

High portability of the receiver:
Once the configuration that "couples" the Android device to the HDMI Receiver has been performed, it is possible to remove the Receiver and use it in any other monitor (with the same characteristics required) without having to perform the configuration again
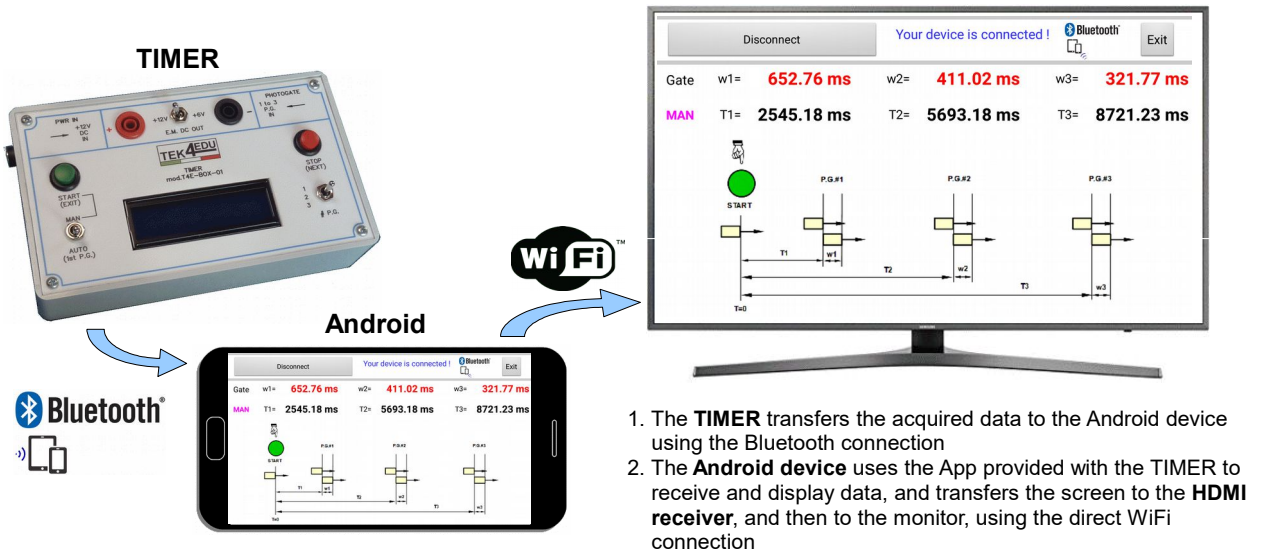
TECHNICAL FEATURES REQUIRED
Mobile device:
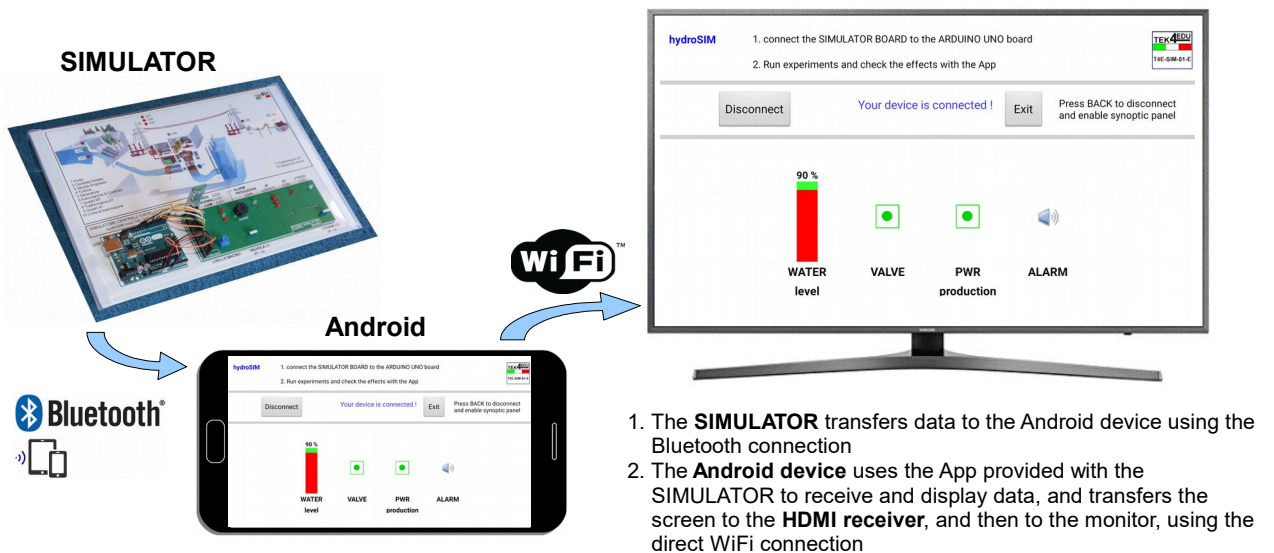- Operating system: Android 4.2 or higher
- WiFi interface
Monitor:
- HDMI port
- Resolution: 1920x1080
- USB port: 5V/0,5A, if available

EXAMPLE 1: use with TIMER mod.T4E-BOX-01-BT

TIMER

Android

1. The **TIMER** transfers the acquired data to the Android device using the Bluetooth connection
2. The **Android device** uses the App provided with the TIMER to receive and display data, and transfers the screen to the **HDMI receiver**, and then to the monitor, using the direct WiFi connection

EXAMPLE 2: use with PROCESS SIMULATOR mod.T4E-SIM-xx-E

SIMULATOR

Android

1. The **SIMULATOR** transfers data to the Android device using the Bluetooth connection
2. The **Android device** uses the App provided with the SIMULATOR to receive and display data, and transfers the screen to the **HDMI receiver**, and then to the monitor, using the direct WiFi connection

EXAMPLE 3: use with EDU SHIELD mod.T4E-ASB-02

EDU SHIELD

Android

1. The **EDU SHIELD** transfers data to the Android device using the Bluetooth connection
2. The **Android device** uses the App provided with the EDU SHIELD to remotely control the EDU SHIELD, and transfers the screen to the **HDMI receiver**, and then to the monitor, using the direct WiFi connection