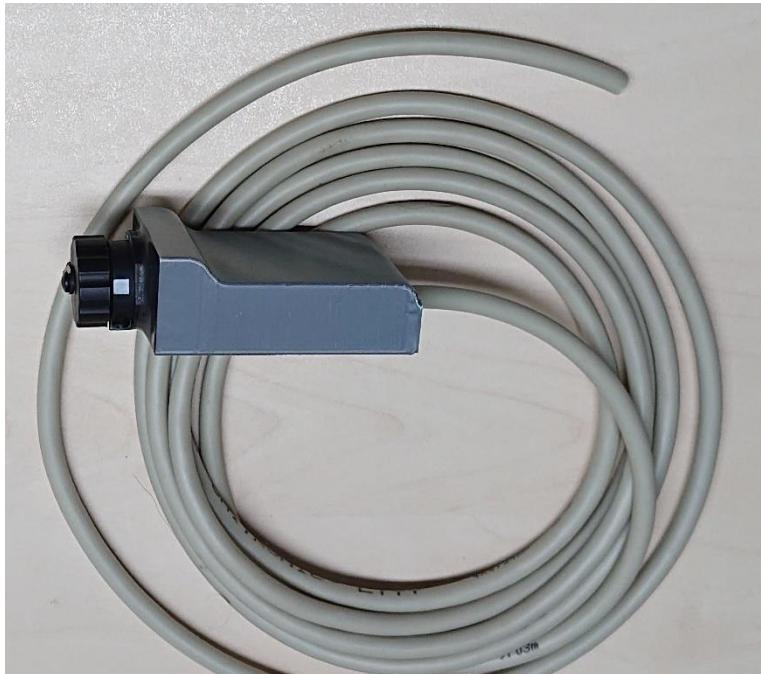


## FG-WiFi

# WiFi adapter for FG-33, FG-33+ and FG43 sensors

### User manual V1.1



PARAMETER	VALUE	UNIT
Recommended supply voltage	7-16	VDC
Typical Supply Current	130	mA@12V
Maximum supply Voltage	20	VDC
Cable lenght	2	m
Temperature range	0 - 50	°C

### GENERAL DESCRIPTION

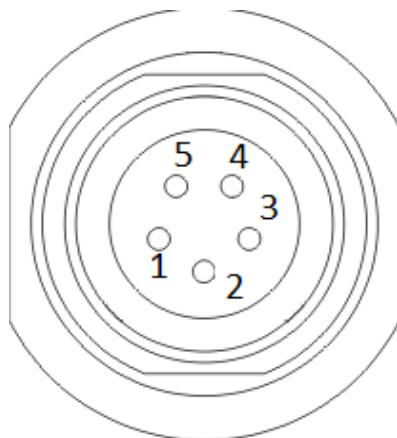
The FG-WiFi can wirelessly stream live view and record data from 3-axial sensors type FG-33, FG33+ and FG-43. All you need to do is connect the FG-WiFi adapter with the sensor and connect it to the power supply (the sensor will now be powered from the adapter, so you don't need extra power supply!).

Data from the sensor can be monitored on your android phone with FG Sensors app [DIY Magnetometer by FG Sensors - Apps on Google Play](#)

In the FG Sensors app you can select Raw, Calibrated or Vector view (you can read more about this in the FG-33/43 user manual)

### PINOUT AND CONNECTING

Prepare the connector for power supply adapter. Keep in mind, that this connector will also supply power to your sensor. It is recommended to use at least 20AWG (0.5mm<sup>2</sup>) cable.



1, 2, 3 – NC, 4+12V INPUT, 5- GND

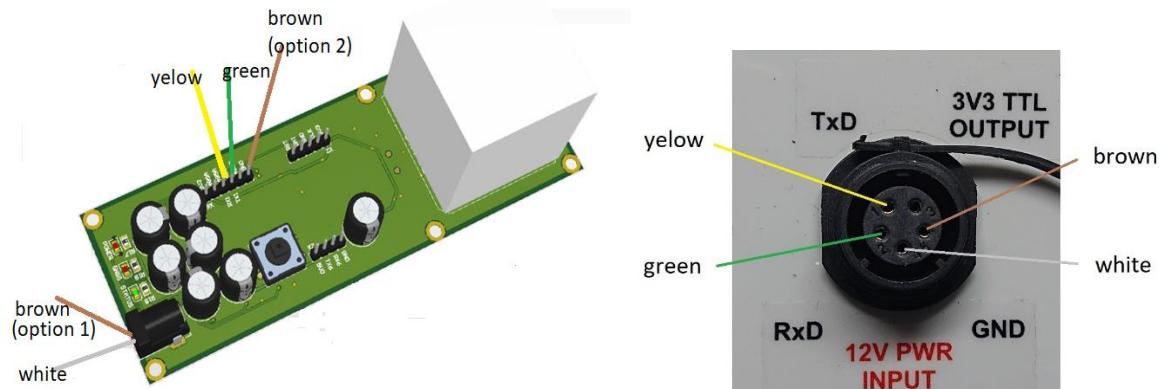
## CONNECTING TO THE SENSOR

FG-WiFi comes without the connector, because each sensor has its own connector. The cable has only 4 wires. White wire can be used to provide power supply to the sensor, brown wire – GND, while green and yellow wires are for communication.

More information about the sensor's side connector are available in the sensor manual.

FG-WiFi	FG-43	FG-33/33+
WHITE	JACK center pin	+12V INPUT
BROWN	GND	GND
GREEN	485B	RXD
YELOW	485A	TXD

The FG-33 has all the pins on the connector, while with the FG-43 you need to connect the white and brown wire to the power connector. On the other hand if you have your own power supply then connect only yellow, green and brown wire. Brown wire can be connected as shown with option 2



### IMPORTANT!!!

Incorrect connection can destroy your sensor. Check twice before connecting the wires!  
Keep in mind, that the FG-WiFi can affect the sensor. Be sure to keep it as far away as possible from the sensor!

## USING ANDROID APP

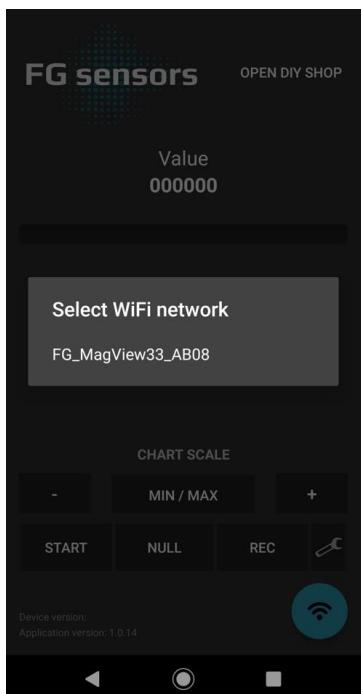
When the FGsensor app [DIY Magnetometer by FG Sensors - Apps on Google Play](#) is successfully installed, enable the Wi-Fi and power the device to run the app. **No password is needed** for connecting. Wait until your phone finds the device, click on the blue Wi-Fi icon to connect and confirm the connection.



Searching for device



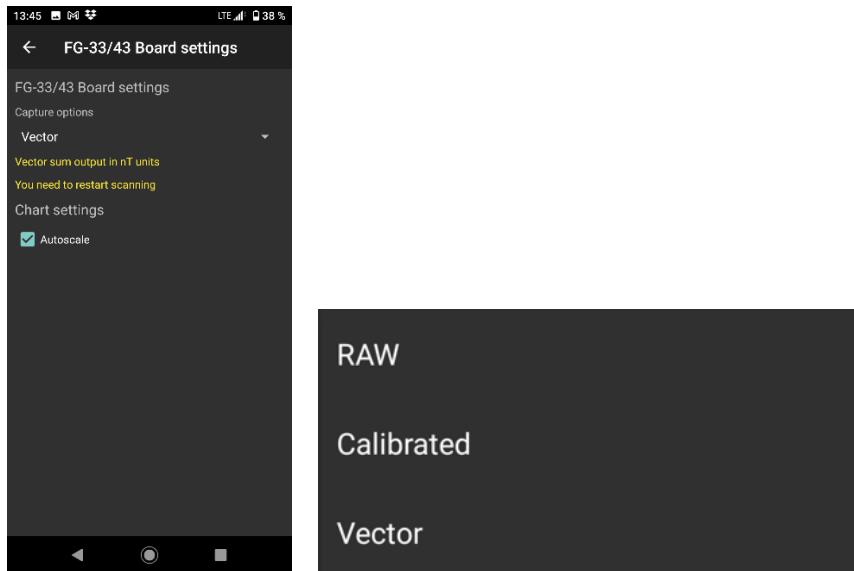
Device found, ready to connect



Click on FG\_MagView33 to confirm the connection.

After successfully establishing the connection, the below options are available:

- STOP (START) button will stop/start displaying charts
- NULL will null the detector
- REC(STOP) will start to record live chart. When the recording ends (by pressing STOP) data will be saved in the app directory and allow you to share it.
- In case of manual scale, you can manually scale area with »-« or »+« button and set minimum, maximum and zoom step with »MIN/MAX« button
- OPTIONS  allow you to choose between the output data type and autoscale or manual scale



Calibrated

RAW

Vector

