

**Wireless measuring-module
AV51W**

AV51W

The general information:

AV51W series are designed for wireless measurement of temperature, humidity, displacement, pressure, force, strain, vibration, etc. The measurement results can be presented on computers with communication WIFI or mobile devices. To the module can be connected to 27 digital sensors. Sensors are detected automatically. The sensors may have different accuracy, from simple resolution 1/1000 (10bit), medium 1/32000 (16bit) for super-precise 1/2000000 (22bit). The possibility of the location of the transducer at the sensor reduces disturbances and noises of measurement. Sensors well work in the environment about average disturbances to several hundred metres from the module AV51.

In case of connecting to Internet measurement can be put on the remote server and served in the programme APEK NetPrezenter. The module has a USB communication interface to set up and update the software.

Depending on the required distance available versions with the internal or external antenna.

Power: AC adapter or solar. Internal or external accumulator.

Devices AV51WiFi can also work as modems WIFI to the wireless communication with systems AL154.

Method of specifying:

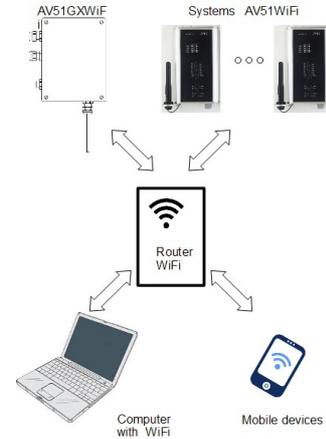
AV51G5W25T.W.Z – (optionally) when there is no internal accumulator.

- |----- antenna: W - internal, Z - external
- |----- type of measurement, eg. 25 temperatures.
- |----- type of communication In-WiFi and USB.
- |----- (optionally) external housing
- |----- type of the measurement system

Example: AV51G2W4L.Z - 4 measurement of displacements, the external antenna.

Technical parameters:

- Digital inputs: up 27
- Frequency of measurement: programmed from 1min. to 48h.
- Measuring ranges: dependent from transducer.
- Communication: wireless WiFi 2.4GHz
USB (115400bod)
- USB socket: micro B
- Resolution and accuracy: dependent from transducer.
- Measurement type: programmable, dependent from transducer.
- Power: USB port 5V/1.5A max,
- Internal accumulator: Lithium-ion 3.7V/1800mA
- Work time: From 5h up to several months
- Current supply: <90mA (without sensors).
- Sensors socket : plug M12 4pin
- Dimensions: 144x72x19mm - weight 0.25kg



The work in internal net.



AV51 with the sensors socket of the type M12. On the right, the additionally external antenna.



AV51 with the humidity and temperature sensor of the type HygroClip2, and external: antenna and accumulator.



The available programme on mobile devices.