



DigiPak
Smart



DigiPak Smart Level Sensor

WIFI WATER
LEVEL/
DISTANCE
SENSOR

Specifications:

1. Ultrasonic, non-contact water level measurement
2. Wi-Fi Capable so you can read the water level through DigiPak Smart App
3. On Module Display to also read value directly
4. Creates its own Wi-Fi so no need to use home Wi-Fi
5. Programmable Display Options:
 - 1) Distance from Sensor
 - 2) Percentage value of Tank Level and
 - 3) Water Level from the Tank Bottom
6. Can be connected wirelessly to DigiPak Smart Switch to control a water pump automatically
7. Can measure distance from 20 cm up to 3m

Details:

DigiPak Smart Water Level Sensor uses an ultrasonic sensor to measure distance from the sensor probe to the water level. Its default output is distance measurement. Distance for Top and Bottom Levels can be set to display values as a percentage of tank height or water level height from the bottom settings.

Distance Values are displayed in cm (centimeter).

The sensor can be fixed inside the water tank cover and must face the water. The sensor sends out ultrasonic waves. The Ultrasonic wave hits the water surface and is returned back to sensor which then calculates the distance of water from the sensor. The sensor is water proof and will not be affected by water splashing on the sensor.

The wave spreads out as it moves away from the sensor and will return as soon as it hits an object. Sensor must be placed away from tank sides to avoid false return

Also DigiPak Smart Switch can be slaved to the level sensor to automatically control the water pump.

Network Setup:

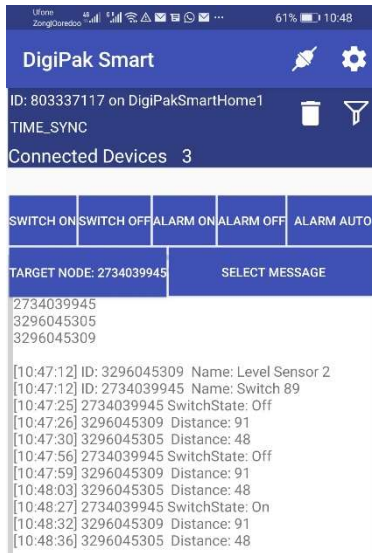
All DigiPak Smart devices come setup with default network "DigiPakSmartHome1" and default password which is setup in DigiPak App and all devices. Out of the box all devices will connect to each other and the app and work seamlessly.

As a safety measure however, user is advised to change the network name and password according to their choice.

Note: Do not use your home Wi-Fi settings for DigiPak Smart Devices as this will cause a conflict.

If you change the network name and password, you will need to change it on all DigiPak Smart devices as well as setup the new network name and password in DigiPak Smart App on your phone

DigiPak Smart Level Sensor settings can be changed using following commands through send message window of the DigiPak Smart APP



DigiPak Smart App



Control Module



Sensor Probe

General Commands

- Restart Restarts the module. Only required after WIFI or PASSWORD change
- Name Displays the current name of this sensor on App message screen

Setting Commands

- SetTopXXXX Sets the Top Value of Tank Level (Required to show value in percentage)
- SetBottomXXXX Sets the bottom Value of Tank Level (Required to show level as percentage)
- ShowPercent Displays Tank Level in percentage
- ShowLevel Displays Tank Level as height from bottom value
- ShowDistance Displays Tank Level as a distance from the sensor (default setting)
- SetFillTopXXXX Top Fill level of Tank to control Automatic Switch
- SetFillBottomXXXX Bottom Fill Level of Tank to control Automatic Switch
- SlaveSwitchXXXXXX Slave Switch ID which is connected to water pump for tank filling
- AutoFillEnable Enable Automatic filling of Tank (Requires FillTop, FillBottom and SlaveSwitch to be set)
- AutoFillDisable Disable auto filling of tank
- ShowSettings Displays the current settings of this module

Network Setup Commands

WIFIXXXXXXXX Set the WiFi name of the network to XXXXXXXX (Will connect to new network on restart)

PASSWORDXXXXXX Set the Password of network to XXXXXX (Will connect to new network on restart)

NETNAMEXXXXXX Display Name of this module

Reset This command will reset the module so Wi-Fi Name, Password and Module name can be entered at the same time. After Reset Command, the module will start with a new Wi-Fi connection (DigiPakSmartModule). You can connect to it with password (guest1234). After connecting, open the web browser and enter 192.168.4.1 in address bar. In the Webpage you can enter the Wi-Fi connection name that you want to set, Password and Module Name.

NOTE:

1. Wi-Fi Name and Password needs to be same on all DigiPak Devices and the app on your phone to enable all devices to talk to each other.
2. Wi-Fi Network used for DigiPak devices should be **different from your home Wi-Fi** to function properly.