

DAZZLE AGRITECH SOIL MOISTURE SENSOR : (MKIT – 03)

(Zero Corrosion and low power operation)



Dazzle

Dazzle Agritech Soil Moisture Sensor (MKIT-03)

Dazzle Agritech Soil Moisture Sensor (MKIT-03) is a breakthrough in soil moisture measurement technology with its completely enclosed and zero corrosion design. It provides lifelong accurate performance and zero maintenance.

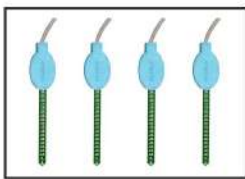
UNIQUE FEATURES OF THE SENSOR



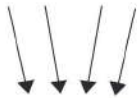
- Instantaneous reading of soil moisture without any delay
- Accurate Reading of Soil Moisture
- Water proof enclosure and can be buried at any depth
- Works on 5V DC supply with a very low current consumption
- Multiple Soil sensors can be connected to data logger to collect data on server
- The sensor reading is not affected by soil salinity
- Measures Volumetric Water Content (VWC)
- Measures Gravimetric Water Content (GWC)
- Slender design for easy fitting
- Zero corrosion with unique design and no exposed parts

INTERFACING OF MULTIPLE SENSORS WITH RMS TO AQUIRE DATA FROM LOCATION

The MKIT-03 soil moisture sensor can be connected to the Dazzle Remote Monitoring Device to transmit the data to a server wirelessly. This can then be used to control pump, valves or any device using the Dazzle Remote Switch.



Multiple sensors can be connected to a single remote monitoring device (uptill 10 sensors can be connected to a single monitoring device).



The distance between the sensor remote monitoring device can be upto 150 feet



The Dazzle Remote Monitoring is linked to the data server wirelessly via GSM sim card. The data collected is instantaneously transmitted to the remote server.



The Data is transmitted on a GSM network to the data server



The remote server receives the data. This data can be monitored to make decision to control irrigation actuator like valve or pump. This decision can be transmitted wirelessly to remote switch via GSM network to operate remote switch



The Remote switch receives the data from the server. The remote switch is connected to electricity power supply through a contactor system



The pump is started once the remote switch activates the contactor and can be switched off similarly

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- **Dazzle Robotics Pvt Ltd** is a multi product company working in the field of Electronic Devices and Wireless Communication
- Dazzle Agritech Division was established to enable the implementation of world class technology in IOT and technical agriculture being used globally in developed economies
- The products launched by Dazzle Agritech enable the remote monitoring and control of various parameters required for optimum usage of resources and provide high yield
- The products are developed looking at Indian Operating Conditions and guaranteed for trouble free operation



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