Theory of operation

Irrigation plan prepared during a smartphone App after that will be sent it as a string code to the irrigation controller
Via Bluetooth Communication , the string code is saved in the ARM MCU (Micro Controller) Memory in the irrigation controller
According to this code and the internal Real Time Clock of the MCU the Solenoid Valve Open / Close the water irrigation
According to the MCU Command.

Ground System: is the Minus of the Battery.
Antenna used: Antenna Component 2450AT18A100