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Solar Street Light

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Model - Scientech PV151

Note Shown image is just for illustration original may differ

Technical Specifications

- The system is able to perform Real time Remote Monitoring of parameters like – Temperature, humidity, air quality, motion data through sensors On/OFF Status of light pole on console,
- Processor: 64bit cortex A53 ARMv8 Quad core processor 1.4GHz
- Connectivity: 802.11 b/g/n Wireless LAN, Bluetooth 4.1, ZigBee, USB & Ethernet RAM: 1GB LPDD2
- Memory: 32GB OS: Linux
- Ethernet: 10/100 base T Ethernet socket
- Video output: HDMI and composite RCA USB port: 4 nos.
- BS 10 terminals and specially designed patch cords are provided to protect from danger.
- BS10 safety terminals are in compliance with IS302-1/IEC60335-1, tested from NABL accredited Lab
- Control Panel is consist of high grade FRP material for better safety and in compliance with IS302-1/IEC60335-1, tested from NABL accredited Lab
- Smart pole and node
- Microcontroller: ATMega2560
- Sensors and actuator connector: 10 nos.
- Digital input/output pins: 34 nos.
- Analog input pins: 16 nos.
- UART: 2 nos.
- I2C: 1 no.
- Switch faults: 30 nos.
- Test points: 30 nos.

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- Power Supplies: 5V and 3.3V
- Variable potentiometer: 1 no (10K)
- Switches: 3 nos.
- Digital voltmeter and ammeter: 0 - 25V/10A
- Buzzer and LED: 1 no. each Color
- LCD: 1.77 inch (approx)
- USB: 2.0
- Wi-Fi module: 1no. (2.4GHz)
- ZigBee transceiver: 1no. (2.4GHz/63mW)
- Flash memory: 256 kb (of which 8 KB shousd used by boot loader)
- SRAM: 8 KB
- EEPROM: 4 KB
- Clock speed: 16 MHz PIR sensor: TTL
- Temperature sensor: 0 - 100° C
- Humidity sensor: 0 – 100 %RH
- Air quality sensor: PM, PM2.5, PM10 Ambient light sensor: Analog output
- Solar panel: 40W
- Battery: 12V, 26 Ah
- Charge controller: 12V, 0.7A
- LED light: 10W
- Rheostat: 100 Ohm, 3A MCB: 16A
- DC ammeter: 5A
- DC voltmeter: 100V
- Battery level indicator display: 8-70V
- Power Supply: 110V - 260V AC, 50Hz
- Rheostat - 100 Ohm, 3A (01 no),
- 4mm BS-10 Banana Patch cords (25 nos.),
- Keyboard & mouse, structure for Solar Panel

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