SENSOR TRAINER KIT



SPECIFICATIONS:

- * IoT enabled Android based 7" Graphical touch LCD with inbuilt Controller
- * DAQ for acquiring analog data and software for viewing the output waveforms with USB storage and HDMI output.
- * Ethernet port to connect real world.
- * Inverting, Non Inverting, Power, Current, Instrumentation and Differential Amplifier, F to V, V to F, I to V, V to I Converter, High Pass and Low Pass Filter, Buffer, LED, Buzzer, LED Bar Graph, Touch Switch

Sensors On board:

- * RTD,
- * NTC Thermistor,
- * LM35.
- * Photovoltic.
- * Air humidity and Temperature,
- * Gas (Smoke),
- * Air Quality,
- * Atmospheric Pressure,
- * Limit switch,
- * Capacitive displacement
- * Arduino programming
- * Sockets for sensors and actuators interface
- * Signal test points
- * All sensors are mounted on Integrated PCB & having aesthetic flow of Mimic diagram depicting the functionality of the trainer
- * User friendly modular setup.
- * We provide T3 (Train The Trainer) program

WIRELESS COMMUNICATION MODULES



SPECIFICATIONS:

- * Core 8051 MCU clocked at 11.0592 MHz.
- * Ready to run programmer to support family of controllers AT89C51/52
- * DC Power Supplies +12V, -12V, +5V & -5V
- * Breadboard to make circuits.
- * Detailed learning content through simulation Software

- * RFID Card Reader.
- * Finger Print,
- * Zigbee,
- * GPS,
- * GSM.
- * Bluetooth and
- * WiFi
- * Arduino programming
- * Sockets for sensors and actuators interface
- * Signal test points
- * All sensors are mounted on Integrated PCB & having aesthetic flow of Mimic diagram depicting the functionality of the trainer
- * User friendly modular setup.
- * We provide T3 (Train The Trainer) program

SMART TRANSPORTATION



SPECIFICATIONS:

* Processor : 32 Bit, Modem : Quad-Band 850/900/1800/1900MHz

* GPS Frequency: 1575.45 MHZ

* Input Supply: 12V DC

* Front End : Zend Framework

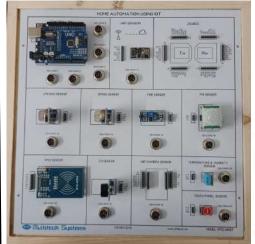
* Back End: mySQL

* OS : Windows compatable

Sensors On board:

- * Speed Sensor
- * Temperature Sensor
- * Humidity Sensor
- * Accelorometer Sensor
- * GPS Sensor
- * GSM Sensor
- * Arduino programming
- * Sockets for sensors and actuators interface
- * Signal test points
- * User friendly modular setup.
- * All sensors are mounted on Integrated PCB & having aesthetic flow of Mimic diagram depicting the functionality of the trainer
- * We provide T3 (Train The Trainer) program

SMART BUILDING



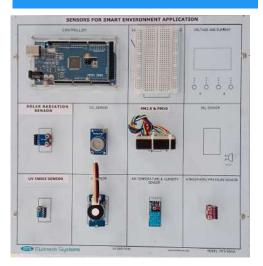


SPECIFICATIONS:

- * Smart Capacitive Touch Switch Board with 3
- * Light controls,
- * 1 humming free FAN control,
- * 116A AC control,
- * 3 IR Channels for controlling
- * IR appliances,
- * 8 Capacitive Touch Buttons,
- * 2 Digital Sensor Inputs,
- * 1 Digital Output

- * CCTV Camera,
- * Motion Sensor
- * RFID,
- * Smoke,
- * Fire.
- * LPG Gas.
- * Air Quality,
- * Ambient Temperature & Humidity,
- * CO2,
- * Light,
- * Relays,
- * Hooter,
- * Touch Panel
- * All sensors are mounted on Integrated PCB & having aesthetic flow of Mimic diagram depicting the functionality of the trainer
- * We provide T3 (Train The Trainer) program

SMART ENVIRONMENT



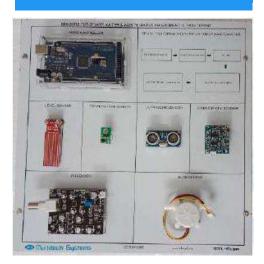
SPECIFICATIONS:

- * Arduino software compatible hardware.
- * CO2 Sensor,PM2.5 & PM10
- * O2 Sensor, UV Index Sensor
- * Air temperature & Humidity Sensor
- * Atmospheric Pressure Sensor
- * Sockets for sensors and actuators interface.
- * Signal test points
- * All sensors are mounted on Integrated PCB & having aesthetic flow of Mimic diagram depicting the functionality of the trainer
- * User friendly modular setup.
- * We provide T3 (Train The Trainer) program

Sensors On Board:

- * CO2 Sensor
- * PM2.5 & PM10
- * O2 Sensor
- * UV Index Sensor
- * Air temperature & Humidity Sensor
- * Atmospheric Pressure Sensor

SMART WATER & WASTE WATER MANAGEMENT



SPECIFICATIONS:

- * Arduino software compatible hardware.
- * Conductivity sensor, PH sensor, Level sensor and Flow sensor.
- * Ultrasonic sensor & Temperature sensor & PH sensor Arduino programming.
- * Sockets for sensors and actuators interface.
- * Signal test points
- * All sensors are mounted on Integrated PCB & having aesthetic flow of Mimic diagram depicting the functionality of the trainer
- * User friendly modular setup.
- * We provide T3 (Train The Trainer) program

- * Level Sensor
- * Ultrasonic Sensor
- * Conductivity Sensor
- * Flow Sensor
- * PH Sensor
- * Temperature Sensor

IOT EXPLORER



SPECIFICATIONS:

- * Arduino software compatible hardware.
- * Raspberry software compatible hardware.
- * Sockets for sensors and actuators interface.
- * Signal test points
- * All sensors are mounted on Integrated PCB
- * User friendly modular setup.
- * We provide T3 (Train The Trainer) program

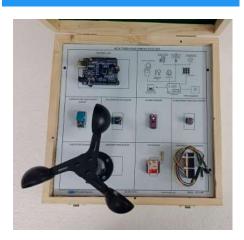
Sensors On Board:

- * Air Quality Sensor
- * Photo Sensor
- * Soil Moisture Sensor
- * Bluetooth Sensor
- * Temperature & Humidity Sensor
- * PIR Sensor
- * Zigbee communication
- * GSM IoT Gateway -

Quad-Band 850/900/1800/1900 MHz - GPRS multi-slot class, Control via AT commands. Explore physical and application layer protocols like RS232, RS485, GSM, Ethernet and MQTT, CoAP, HTTP, FTP. Cloud/server configuration includes HTML, Java, php and mySQL.

* IoT Node: Wireless 2.4GHz Zigbee, 5 Analog Inputs and at least 3 Digital Outputs, At least one I2C Channel, support OTA. Online Cloud/Server Services

WEATHER MONITORING SYSTEM



SPECIFICATIONS:

- * Arduino software compatible hardware.
- * Sockets for sensors and actuators interface.
- * Signal test points
- * All sensors are mounted on Integrated PCB
- * User friendly modular setup.
- * We provide T3(TrainThe Trainer)program
- * Temperature Range : -10°C to 90°C
- * Relative Humidity Operating Range 0 to 95%
- * Wind Speed Sensor Speed: 0 to 20m/S

- * Temperature & Humidity Sensor
- * Solar Radiation Sensor
- * UV Index Sensor
- * Atmospheric Pressure Sensor
- * Wind Speed Sensor
- * Wind Direction Sensor
- * GSM Sensor
- * Air Quality Sensor PM 2.5

SENSORS AND ACTUATOR FOR IRRIGATION APPLICATION



SPECIFICATIONS:

- * Arduino software compatible hardware.
- USB connectivity for personal computer (PC) interface.
- Arduino programming.
- Sockets for sensors and actuators interface.
- Signal test points
- * All sensors should be mounted on Integrated PCB & having aesthetic flow of Mimic diagram depicting the functionality of the trainer
- * User friendly modular setup.
- * We provide T3 (Train The Trainer) program

Sensors On Board:

- * Capacitive Soil Moisture &
- * Temperature,
- * Leaf Wetness.
- * Solar Radiation(0- 2000mw/m2),
- * Thermal Imager

Actuators:

- * Sprinklers,
- * Relay
- * Flow Sensor

SENSORS FOR GREEN HOUSE APPLICATION



SPECIFICATIONS:

Arduino software compatible hardware. .

CO2, O2, VOC, NO2 Sensors Soil Moisture, NO2, Leaf Wetness, Solar & UV Index Soil Moisture, Leaf Wetness, Solar radiation

- USB connectivity for personal computer (PC)
- Arduino programming.
- · Sockets for sensors and actuators interface.
- Signal test points
- * All sensors are mounted on Integrated PCB & having aesthetic flow of Mimic diagram depicting the functionality of the trainer
- * User friendly modular setup.
- * •We provide T3 (Train The Trainer) program

- * CO2 Sensor
- * O2 Sensor
- * VOC Sensor
- * NO2 Sensor
- * Soil Moisture Sensor
- * Leaf Wetness Sensor
- * Solar Radiation
- * UV Index

SOLAR PV MODULE ANALYSER



SPECIFICATIONS:

- * Micro-controller Based with 16X2 LCD,
- * PC Interface
- * Mains & battery operated.
- * Capable to measure Open Circuit
 Voltage and Short Circuit Current
 Maximum Voltage and Current at Maximum
 Power
- * DCV Range 0-50V,
- * DCA Range 10A

IOT BASED SMART AGRICULTURE





SPECIFICATIONS:

- * Arduino programming.
- · Sockets for sensors and actuators interface.
- Signal test points
- * •All sensors should be mounted on Integrated PCB & having aesthetic flow of Mimic diagram depicting the functionality of the trainer
- * •User friendly modular setup.
- * Sensors: WiFi,Zigbee modeule,Soil Moisture, CO2,O2,VOC,NO2,O2,Pressure,Leaf Wetness

SENSORS FOR LIVESTOCK MONITORING



SPECIFICATIONS:

- * Arduino programming.
- Sockets for sensors and actuators interface.
- Signal test points
- * •All sensors should be mounted on Integrated PCB & having aesthetic flow of Mimic diagram depicting the functionality of the trainer
- * •User friendly modular setup.
- * Sensors: GPS Sensor, Bluetooth Sensor
- RFID & PIR Sensor WiFi Sensor

IOT BASED SMART HEALTH CARE



SPECIFICATIONS:

- * Arduino programming.
- · Sockets for sensors and actuators interface.
- Signal test points
- * •All sensors should be mounted on Integrated PCB & having aesthetic flow of Mimic diagram depicting the functionality of the trainer
- * •User friendly modular setup.
- * Sensors: GSR,ECG,Temperature,Heart rate

IT WORKBENCH FOR COMPUTER & HARDWARE



SPECIFICATIONS:

- * The bench comprises with Computer Hardware Training System
- * LAN Training System with Wireless LAN as well to study Peer to Peer, STAR, RING Topology
- * 2 Layer Switch
- * POE Switch
- * Wi-Fi LAN card
- * IP Camera
- * Energy meter
- * DSO, DMM

IOT DATA ACQUISITION SYSTEM



SPECIFICATIONS:

- * 8 DI/O, 4 AI/O, 4 Relay
- * Ethernet IOT DAQ, WiFi IoT DAQ,
- * Cellular (GSM / GPRS)
- * MODBUS RTU to MODBUS TCP
- * 24 VDC Isolated Power Supply,
- * 4 Isolated MODBUS RTU
- * Serial to Ethernet, Serial to Wi-Fi, Serial to GPRS

FIELD INTERFACE PROTOCOL SIMULATION KIT



SPECIFICATIONS:

- * Ethernet Devices with Isolated Supply and port
- 8 DI/O, 4 AI/O, 8 Relay
- 4 RS485 Slave ports, 1 Ethernet Port – Qty 4
- * 16 Port Ethernet Switch for networking of field ethernet devices
- * SMPS to power up multiple ethernet based field simulation devices

IOT EDGE COMPUTING DEVICE



SPECIFICATIONS:

- * 24 VDC Isolated Power Supply,
- * 4 MODBUS RTU Master.
- * 32 GB Built in SD Card,
- * 1 Wi-Fi Port, 1 Ethernet Port, 1 GPRS Port,
- * 4 Analog Inputs (0.1% FSR),
- * 8 Pulse Inputs (up to 1 kHz),
- * 8 Digital Inputs,
- * 4 Relay Outputs

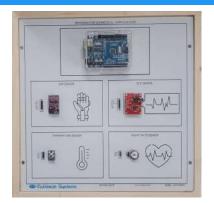
SOLAR POWER LAB



SPECIFICATIONS:

- * Solar PV Modules.
- * Open Circuit Voltage Voc 10V,
- * Short Circuit Current ISC
- * Maximum Power Voltage: 8.80V,
- * Batteries
- * Voltage 6V, 4Ah.
- * Dusk to Dawn Sensing,
- * LCD for Voltage and Current.

SENSORS FOR BIO MEDICAL APPLICATION



SPECIFICATIONS:

- * Arduino software compatible hardware
- * All sensors are mounted on PCB

Sensors On Board:

- * GSR Sensor
- * ECG Sensor
- * Temperature Sensor
- * Heart rate Sensor

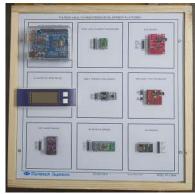
SENSORS AND ACTUATORS FOR IRRIGATION APPLICATION



SPECIFICATIONS:

- * Arduino Programming Sensors On Board:
- * Capacitive Soil Moisture &
- * Temperature,
- * Leaf Wetness,
- * Solar Radiation(0- 2000mw/m2),
- * Thermal Imager
- * Actuators : Sprinklers, Relay, Flow sensor

PATIENT HEALTH MONITOR

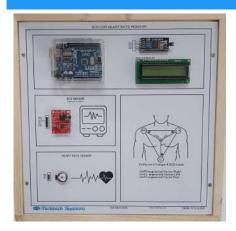


SPECIFICATIONS:

- * Arduino software compatible hardware
- * All sensors are mounted on PCB

- * GSR Sensor
- * ECG Sensor
- * Body Temperature Sensor
- * Glucometer
- * EMG Sensor, SPO2 Sensor

ECG CUM HEART RATE MONITOR



SPECIFICATIONS:

- * Arduino software compatible hardware
- * All Sensors are mounted on PCB
- * 16 x 2 LCD Display

Sensors On Board:

- * ECG Sensor
- * Heart rate Sensor

RESPIRATION RATE MONITOR



SPECIFICATIONS:

- * Arduino software compatible hardware
- * All Sensors are mounted on PCB
- * 16 x 2 LCD Display

Sensors On Board:

- * Respiratory Sensor
- * Piezoelectric transducer

ELECTROMYOGRAPH



SPECIFICATIONS:

- * Arduino software compatible hardware
- * All Sensors are mounted on PCB
- * 10 simulated EMG Outputs

Sensors On Board:

* EMG Sensor

12 LEAD ECG SIMULATOR



SPECIFICATIONS:

- * Arduino software compatible hardware
- * All Sensors are mounted on PCB
- * 12 Lead Simulator

Sensors On Board:

* ECG Sensor