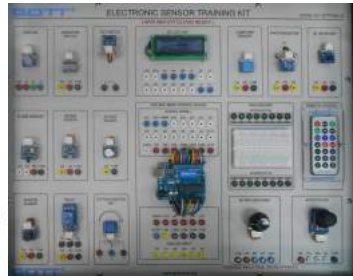


ELECTRONIC SENSOR TRAINING KIT (GOTT IOT CLOUD READY)

Model Number : GOTT-AESTK-01



DESCRIPTION

This Electronic Sensor Training kit (GOTT IOT Cloud Ready) is different from other kits. All the components in this kit are provided in the form of modules which integrate some necessary components, such as comparator, resistor, and capacitor and so on. Therefore it is convenient for circuit connection. They will output signals directly by connecting Arduino boards. The kit includes all kinds of funny and completed modules for Arduino fans. It can help you "control" the physical world with sensors.

FEATURES












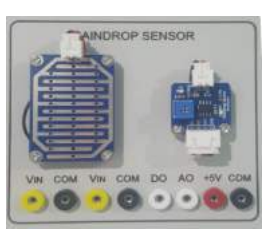




- Arduino is a basic single board microcontroller designed to make applications, interactive controls, or environments easily adaptive.
- Consist of 36 projects and 38 modules for you to learn basic knowledge about Arduino with IoT Cloud Control.
- with Clear breadboard images and schematic diagrams, and thorough wiring description so you can connect the components easily.
- Comes with the software
- Well-designed briefcase, storing all the components by category after you finish the experiment.
- GOTT Iot Cloud Ready

PRODUCT MODULES

| THERMISTOR | CODE 400-140 | BREADBOARD | CODE 400-102 | COLOR SENSOR | CODE 400-103 | TOUCH SWITCH | CODE 400-104 |
|--|---|---|---|--|--|---|---|
| An NTC thermistor sensor is included, supporting high sensitivity. |  | Breadboard for experiments |  | A complete color detector |  | A low-power touch switch module of jog type |  |
| Full color common anode RGB LED |  | Induces shock force and transfer the result to a circuit device thus triggering it to work |  | 12C LCD 1602 Display, Operating voltages used are +5 V or +3.3 V |  | A tilt switch is to detect an inclination |  |
| To test temperature and humidity, which uses the sensor DHT11. |  | A photoresistor module of which the resistance decreases with increasing incident light intensity |  | An IR receiver is a component which receives infrared signals |  | Consists of a flame sensor, resistor, capacitor, potentiometer, and comparator LM393 in an IC |  |
| HUMITURE SENSOR | CODE 400-109 | PHOTO RESISTOR | CODE 400-110 | IR RECEIVER | CODE 400-111 | FLAME SENSOR | CODE 400-112 |



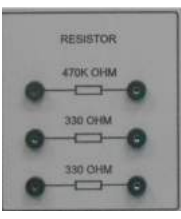








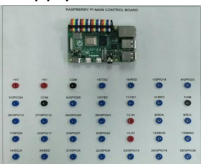
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Model Number : GOTT-AESTK-01

| | | | |
|--|---|--|--|
| SOUND SENSOR CODE 400-113 | REMOTE CONTROL CODE 400-114 | JOYSTICK PS2 CODE 400-115 | ACTIVE BUZZER CODE 400-116 |
| <p>The sensor receives sound waves & converts them into electrical signal</p>  | <p>Infrared remote control as infrared transmission.</p>  | <p>2 lines of analog output (X, Y) and 1 of digital output (Z).</p>  | <p>Produces sound once connect to power, with power light and indicator of digital signal output.</p>  |
| PASSIVE BUZZER CODE 400-117 | RELAY CODE 400-118 | POTENTIOMETER 50K CODE 400-119 | ROTARY ENCODER CODE 400-120 |
| <p>A passive buzzer that needs square signals of 2k-5k to drive</p>  | <p>Working voltage: 5v, With power indicator</p>  | <p>Potentiometer 50K</p>  | <p>A module that measures the rotational speed and supports quick speed control with PWM technology.</p>  |
| ANALOG HALL SENSOR CODE 400-121 | GAS SENSOR CODE 400-122 | TEMPERATURE SENSOR CODE 400-123 | RAINDROP SENSOR CODE 400-124 |
| <p>A Hall sensor is a one that varies its output voltage in response to a magnetic field</p>  | <p>Water level sensor is a module that can sense the depth of water</p>  | <p>An NTC thermistor sensor is included, supporting high sensitivity.</p>  | <p>A raindrop sensor to detect whether it is raining and also the rainfall</p>  |
| ULTRASONIC SENSOR CODE 400-125 | LASER EMITTER CODE 400-126 | AUTO FLASH RED CODE 400-127 | Dual COLOR LED CODE 400-128 |
| <p>The ultrasonic sensor uses sound to accurately detect objects and measure distances</p>  | <p>Laser wavelength: 650nm (red).</p>  | <p>7 Color Auto-flash LED module</p>  | <p>Two different colors, red and green</p>  |

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| | | | |
|---|--|---|--|
| TRACKING SENSOR CODE 400-129 An infrared tracking sensor module that uses a TRT5000 sensor  | BUTTON CODE 400-130 Button  | RESISTOR CODE 400-131 Resistor 470 ohm and 330 ohm  | TEMPERATURE SENSOR CODE 400-132 An NTC thermistor sensor is included, supporting high sensitivity  |
| AD/DA CONVERTER CODE 400-133 8 BIT A/D CONVERTER  | PHOTO INTERRUPTER CODE 400-134 A photo-interrupter is a sensor  | HALL SWITCH CODE 400-135 Working voltage: 5V  | BAROMETER CODE 400-136 A barometer is a scientific instrument used to measure the air pressure  |
| REED SWITCH CODE 400-137 A reed switch module to detect the magnetic field  | REAL TIME CLOCK CODE 400-139 Operating voltage: 4.5V to 5.5V.  | ARDUINO MAIN CONTROL BOARD (OPTIONAL ITEM) CODE 400-101 Arduino Uno R3 Microcontroller Board, Digital I/O : 14 (6 PWM output), Analog input 6  | RASPBERRY PI 4 MAIN CONTROL BOARD (OPTIONAL ITEM) CODE 400-321 <ul style="list-style-type: none"> • CPU Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz • 28x user GPIO supporting various interface • Power Supply : 5vdc 3A  |

EXPERIMENT TOPICS :

- | | | | |
|---|--|---|---|
| <ul style="list-style-type: none"> • Display by I2C LCD1602 • Analog Hall Sensor • Switch Hall Sensor • Analog Temperature Sensor • Temperature Detection by Thermistor • Auto-flash LED • Barometer BMP180 • Real-time Clock Module • Flame Alarm | <ul style="list-style-type: none"> • Flame Alarm • Flammable Gas Detection • Humiture Detection • Joystic PS2 • Controlling an LED by Button • Vibration Switch • Touch Switch • Photo-interrupter • Photoswitch • Reed Switch | <ul style="list-style-type: none"> • Relay • Blinking an LED • Tilt Switch • Buzzer • Digital Temperature Sensor • Rainbow LED • Infrared Receiver • Dual-color LED • Sound Sensor • Rotary Encoder | <ul style="list-style-type: none"> • Rotary Encoder • Laser Transmitter • IR Tracking Sensor • IR Obstacle Avoidance Sensor • Color Detection • Analog-Digital Converter • Raindrop Detection • Distance Detection by Ultrasonic • Thermostatic Water Tank |
|---|--|---|---|

Manuals:

- (1) All manuals are written in English
- (2) Model Answer
- (3) Teaching Manuals

General Terms:

- (1) Accessories will be provided where applicable.
- (2) Manuals & Training will be provided where applicable.
- (3) Designs & Specification are subject to change without notice.
- (4) We reserve the right to discontinue the manufacturing of any product.

Warranty :

2 Years

ORDERING INFORMATION :

| ITEM | MODEL NUMBER | CODE |
|---|---------------|---------|
| ELECTRONIC SENSOR TRAINING KIT (GOTT IOT CLOUD READY) WITH ARDUINO | GOTT-AESTK-01 | 400-100 |
| ELECTRONIC SENSOR TRAINING KIT (GOTT IOT CLOUD READY) WITH RASPBERRI PI | GOTT-AESTK-02 | 400-700 |

* Proposed design only, subject to changes without any notice