

ELECTRONIC SENSOR TRAINER

Model Number : GOTT-ST-01






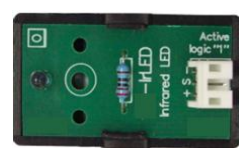





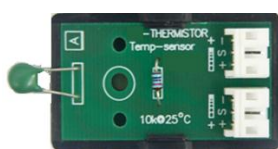


DESCRIPTION

Electronic sensor trainer GOTT-ST-01 is the Science experiment tool set that contains the microcontroller main board, variety of sensor module, actuator and output with display device and software tools. They work together to make the new concept of science experiment and add programming experiences to develop the ultimate science projects.

FEATURES



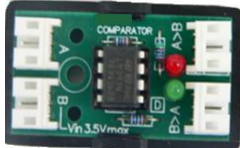


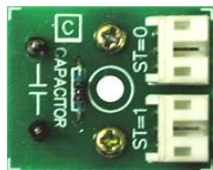



- Learn and experiment the behavior of each sensor to understanding their operation.
- Include the operation of BASIC Stamp2SX microcontroller.
- Learners can apply all knowledge to develop the new science experiment in different ways.
- Data collection system using GOTT DAQ Software.
- Experimenters can get data from system to collect and send to computer to process or plot the graph.
- Control the actuator device such as Relay, DC motor, Stepper motor, etc.
- To make the automatic control projects, modern science projects.

PRODUCT MODULES

SMART SCIENCE EXPERIMENT BOARD	CODE 010-001	LED INDICATOR	CODE 010-007	INFRARED DETECTOR	CODE 010-003	INFRARED LED	CODE 010-004
Operation compatible with BASIC Stamp2SX module (BS2SX-IC) Use interpreter from Parallax 16 KByte memory for program and data Plug on 24-pin DIP socket similar BS2SX-IC		HIGH : Logic 1 apply, LED lights Red. LOW : Logic 0 apply, LED lights Green. If not : LED turns off		Detect the infrared light in analog (voltage) and digital signal by using Photo-transistor		Drive with logic HIGH TTL level 2-mode operations : Continuous drive Frequency drive	
VERTICAL POTENTIOMETER	CODE 010-013	RESISTANCE MEASUREMENT	CODE 010-011	38KHz INFRARED MODULE	CODE 010-002	SOUND DETECTOR	CODE 010-008
Type of variable resistor. Adjustable : 0...5V		Measure resistance value Output : 1mV/ Ω		Detect modulated 38kHz carrier frequency infrared light		Detect sound level changing event. Output is logic	
SWITCH INPUT	CODE 010-009	TEMPERATURE SENSOR	CODE 010-010	LIGHT REFLECTOR	CODE 010-006	MAGNETIC FIELD SENSOR	CODE 010-012
HIGH : Logic 1 apply, LED lights Red. LOW : Logic 0 apply, LED lights Green. Not press : LED turns off		Measure temperature change by Thermistor. 2 outputs voltage : Positive and Negative co-efficiency		Includes Super-bright Red LED as light source and LDR that receive reflection light. Output vary following reflection light density		Measure magnetic field density. If no detect output: +2.5V Sensitivity : 1.3mV/Gauss.	

ELECTRONIC SENSOR TRAINER

Model Number : GOTT-ST-01

LIGHT DETECTOR CODE 010-005 Detect light density. 2 outputs : Positive and Negative voltage reaction when detect light 	CURRENT MEASUREMENT CODE 010-014 Measure DC current by series connection. Output :5 mV/mA . Full range is 1,000mA. 	COMPARATOR CODE 010-015 Compare apply voltage between ch-A and ch-B. Output is logic 0 with indicator. Vin(max) is 3.5Vdc 	ATTENUATOR CODE 010-016 Measure DC voltage. 2 attenuator ratios : 1:1 for 0 to +5V input 2:1 for 0 to +10V input Not use to measure SCI-BOX internal system 
SLIDE VARIABLE RESISTOR CODE 010-017 Type of variable resistor Adjustable : 0...5V 	CAPACITANCE MEASUREMENT CODE 010-018 Measure capacitance value in Farad unit by RC time constant operation. 	SERIAL LCD CODE 010-021 16 Characteristic 2 –Lines x 1 	STEPPER MOTOR CODE 010-020 Input :12 VDC  DC MOTOR CODE 010-019 Input : 6-12 VDC 

EXPERIMENT TOPICS:

- Experiment for serial LCD programming
- Experiment for switch & sound
- Experiment for relay switcher
- Experiment for analog signal via SENSOR0 to SENSOR7 connector
- Experiment for DC motor
- Experiment for stepper motor

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 TRAINER	GOTT-ST-01	010-000

*Proposed design only, subject to changes without any notice.