STEPPER MOTOR WITH PLC TRAINING SYSTEM

Model Number :GOTT-PLC-STP

DESCRIPTION

The GOTT Stepper Motor System is an integrated system for in depth studies Stepper Motor theory and working principles. The system comes with an upright control panel. The stepper motor system is connected via flexible coupling. The control panel comprises of Stepper Motor Driver, Time Delay Contactor, Programmable Logic Controller Unit, PLC Input Terminal Unit, I/O Unit, PLC Output Terminal Unit, and all wiring connections brought out to 4mm terminals. Connecting leads with banana plugs facilitate quick and easy connections between the Stepper Motor System and other control. The Step Motor Unit stands independently with its own power input to simulate the frequency of the stepper motor. The operational and experimental manuals are provided in English.

FEATURES

- Works with Existing Equipment
- Equipped with manual switches to simulate all inputs and outputs
- Accommodates other PLC Brands too
- Actual Stepper motor control
- Integration between stepper motor driver and programmable logic controller unit
- Actual stepper motor unit with sensors for further study of motion control
- Easy connecting ability to existing motor sensors, valves and switches through standard banana jacks
- Can be combined with other control devices included industrial sensors and other mechatronics training equipment.

PRODUCT MODULES

MAIN SUPPLY UNIT — CODE 478-001

Leakage Current: 30mA
CAM Switch : 3-Pole
Emergency Stop

DC POWER SUPPLY — CODE 478-002

Protection Fuse: 3A
Dual output: 0…30VDC
±15VDC
Input: AC 240V, 50Hz 1-Phase

STEPPER MOTOR DRIVER — CODE 478-003

Mode of Operation: Step & Direction, CW & CCW
15 Switch Selectable Step Resolution
Up to 200kHz Step Clock Rate
LED Indicating Power & Fault Status

I/O UNIT — CODE 478-004

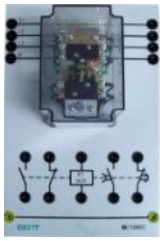
Stepper Motor Driver I/O Unit

PUSH BUTTON — CODE 478-005

Rated Voltage: 240VAC
Contact: NO & NC
Push Button: On & Off button

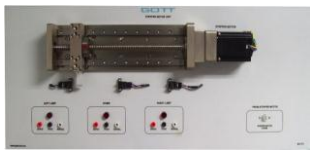
TIME DELAY CONTACTOR — CODE 478-006

Coil Voltage: 240VAC
Contact: NO & NC



STEPPER MOTOR UNIT — CODE 478-007

Sensor Limit: Home, Left & Right Indicator for Sensor Condition
Input: 5…24VDC

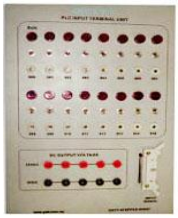


STEP MOTOR MODULE — CODE 478-008

Frequency Ranges: 5Hz,50Hz, 100Hz, 500Hz, 1kHz & 5kHz
Counter Reset function
Direction: CW or CCW

PLC INPUT TERMINAL UNIT — CODE 478-009

Indicator 24VDC x 16 units
Output: 24VDC
Input: Connect to PLC



PLC OUTPUT TERMINAL UNIT — CODE 478-010

Indicator 24VDC x 8 units
4mm Socket x 8 units
Output: 24VDC
Input: Connect from PLC

PROGRAMMABLE LOGIC CONTROLLER UNIT — CODE 478-011

- 16 input & 8 output.
- Frequency pulse output function.
- Cam switch function.
- Frequency counter function.
- 4 high speed interrupt inputs.
- 2 channel high speed counters.

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SAFETY CONNECTING LEAD	CODE 237-001	VERTICAL FRAME	CODE 380-000	EXPERIMENT MANUAL	CODE 478-012
4mm connecting lead		High level : DIN standard A4 with two shelves Material: Aluminium Side Frame: T shape Size: 2-Layer 1450mm Length			

EXPERIMENT TOPICS :

- Fundamentals of Logic
- Programming Language
- Developing Ladder Logic Programs
- Programming timers
- Structure of Control Systems
- Sequencer Programs
- Programming Counters
- Master Control and Zone Control Instructions
- Jump Instructions and Sub-routines
- Combined Counter and Timer Functions

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
STEPPER MOTOR WITH PLC TRAINING SYSTEM	GOTT-PLC-STP	478-000

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