

### Features

- Input-simulation switches function as level and pulse Input for different input signal.
- Windows-based development software
- Assorted peripheral devices and devices that support external extensions it is particularly suitable for laboratory experiment and project implementation.
- Various simulations I/O devices for studying and observing the results
- Using 4mm safety sockets on Input/Output terminals to ensure users' safety

### Specifications

1. Distributing Station(MS-6011)
  - (1) Workpiece feeding module
    - a. Cylindrical feeder
    - b. Fiber optic sensor
    - c. Infeed cylinder
    - d. Workpiece fixture
  - (2) Handling arm module
    - a. Swivel arm
    - b. Rotary cylinder
    - c. Suction cup
2. Testing Station(MS-6012)
  - (1) Material sorting module
    - a. Color identification
    - b. Object presence sensing
    - c. Metallic/plastic identification
  - (2) Lifter module
    - a. Lift cylinder
    - b. Push cylinder
  - (3) Height testing module
    - a. Linear potentiometer
    - b. Potentiometer drive cylinder
  - (4) Airtight testing module
    - a. Z-Axis cylinder
    - b. R-Axis cylinder
    - c. Airtight testing cup
3. Processing Station(MS-6013)
  - (1) Index table module
    - a. Rotary index table
    - b. Drive actuator
    - c. Clamp cylinder
  - (2) Drill and clamp module
    - a. Drill spindle drive
    - b. Drill feed cylinder
    - c. Drill chuck
  - (3) Inspection module
    - a. Drill hole checker
    - b. Checker drive cylinder



Since PLC (Programmable Logic Controller) was firstly introduced in 1970, it has been widely applied to various industrial uses such as machine and process controls.

The Modular Production System allow various simulations of real production processes that exist in industrial field. The system is universal, industry-based, modular and flexible for further expansion. Students can learn the entire process of production, such as feeding, processing, etc.

Each station simplifies the training of operation and can be expanded sequentially step by step through building complex automated procedure.

PLC-310



4. Handling Station(MS-6014)
  - 3-Axis robot module
    - a. Z-Axis cylinder
    - b. Vacuum generator
    - c. Y-Axis cylinder
    - d. R-Axis cylinder



5. MS-6015 Assembly Station
  - (1) Transfer module
    - a. Transfer slide track
    - b. Reflective fiber optic sensor
    - c. Push cylinder
  - (2) Matching parts feeding module
    - a. Matching parts feeder
    - b. Feed cylinder
  - (3) Press module
    - a. Press bed
    - b. Press drive cylinder



6. MS-6016 Storing Station
  - (1) 4-Axis robot module
    - a. Parallel gripper
    - b. Y-Axis cylinder
    - c. Z-Axis cylinder
    - d. R-Axis cylinder
    - e. X-Axis step motor drive
  - (2) Storage module
    - a. Storage locations: 6 locations (3 col x 2 row)



### Optional but Necessary

1. **PLC-310 Trainer**
  - (1) PLC main unit: MITSUBISHI FX3UC-32MT
  - (2) Digital input: 16 points
  - (3) Digital output: 16 points
  - (4) USB-422 cable
2. **PLC-33001 i-BOX**
  - (1) Emergency stop button
  - (2) Expansion digital input module (8 Digital input)
  - (3) Expansion analog input module (2 Analog input)



PLC-310

### 3. PLC-33002 i-BOX

- (1) Emergence stop button
- (2) Expansion digital input module (8 Digital input)



PLC-33001 i-BOX

PLC-33002 i-BOX

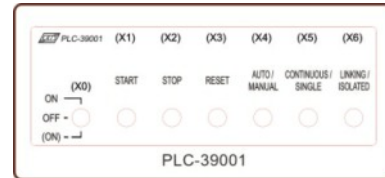
### 4. Air Compressor

- (1) Air tank 88L ±10%
- (2) Max. pressure : 10kg/cm<sup>2</sup>
- (3) Flow rate : 185L /min ±10%

### 5. GX-developer Software CD

### Accessories (for each station)

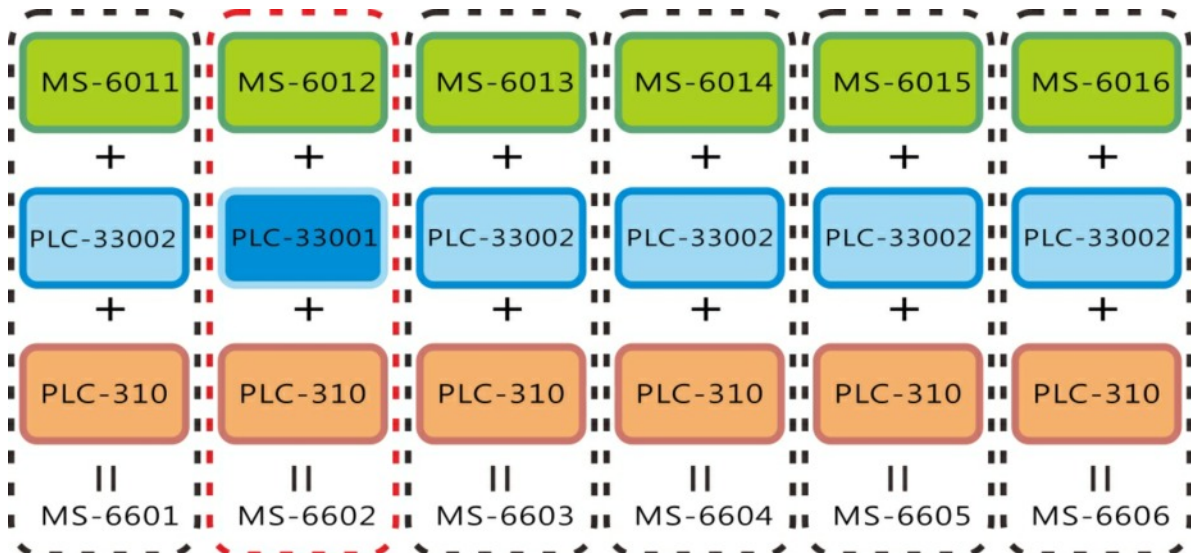
1. 25-pin Male-Male Data Cable x 1 pce
2. 25-pin Female-Female Data Cable x 1 pce
3. 40-pin Flat Cable x 1 pce
4. 10-pin Flat Cable x 1 pce
5. Plastic Panel (PLC-29001) x 1 pce
6. Power Cord x 1 pce
7. Experiment Manual



### System Requirement

- Working Table : 1 pce for one station. Size: 150(L) x 75(W) x 75(H) cm (or above)

### Order Information:



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