



VERITAS Engineering

Catalog
Of

Industrial Automatic Control Solution



VERITAS Engineering

Brand: VERITAS

Model: VICS-001

Features



Air Compressor Module



Conveyor Belt Module



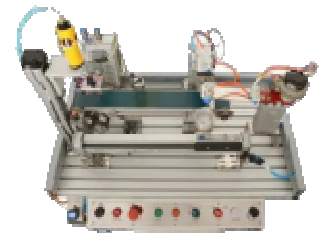
Control Panel



Liquid Mixing Module



Pick and Place Module



Pneumatic Module

Picture: Industrial Automatic Control System

Technical Specification

- **Controlling Panel:**

- PLC 1 Nos,
- PLC Input 12,
- PLC Output 8,
- HMI 1 Nos. 7inch,
- Ethernet Communication
- Ethernet Communication Cable 1 Nos.
- Temperature Controller with Sensor 1 Nos.
- Digital Timer 1 Nos,
- Digital Twin Timer 1 Nos,
- Digital Counter with Relay Controlling,
- Photo Sensor (NPN & PNP) 3Nos,
- Proximity Sensor (NPN & PNP) 3Nos,
- 8 Output Indicator & Pin out,
- 24V Power Supply.
- Push Switch 8 Nos,
- PLC Input Pin out,
- PLC Output Pin out.
- Main Circuit Breaker,
- Individual AC Circuit Breaker,
- Individual DC Circuit Breaker.
- AC Output Display & Indicator,
- DC Output Display & Indicator.
- Magnetic Conductor 8 Nos,
- Relay 8 Nos.
- Heavy metal Casing,
- Protective Enclosure with Lock.
- Panel Dimension (Whole): 4.6ft x 6ft x 1ft.

- **Pick and Place Module:**

- Double-Rod Aluminum Alloy Cylinder 1 Nos.
- Actuator Air Gripper Cylinder 1 Nos.
- Attached Guide and Speed Controller
- Horizontal left, right sensing Auto switch
- Vertical up/down sensing Auto switch.
- Relay 3Nos
- Human Machine Interface HMI
- Display Type: 7 inch TFT LCD, Resolution: 800 x 480 pixels,
- Backlight: LED,
- Display Size: 154.08 x 85.92mm,
- Operation System: Delta Real-Time OS.
- MCU: 32-bit RISC Microcontroller, SD RAM: 64 Mbytes,
- Buzzer: Multi-Tone Frequency 2K-4K Hz85dB, Operation Voltage: DC +24V



- **Air Compressor**
 - Type: PISTON,
 - Piston Configuration: PORTABLE,
 - Power Source: AC POWER,
 - AC Power Lubrication Style: Lubricated,
 - Working Pressure: 8 bar,
 - Motor power: 0.75KW 1HP,
 - Pressure: 8Bar 115P.s.i. 0.8Mpa
 - Type of the air compressor: Direct-driven
 - Heavy Metal Box.
 - Module Dimension: 28 inch x 20 inch
- **VFD:**
 - 1.5kw VFD (230V 1/3 Phase),
 - 1/2 H.P Three Phase Induction Motor.
 - Three Phase Circuit Breaker,
 - A potentiometer,
 - Power Indicator
- **Pneumatic Sorting Module:**
 - Conveyor belt motor (speed and directional control).
 - 3 Infrared beam sensors,
 - 3 Electro-pneumatic valves,
 - 3 Pneumatic single-acting cylinders,
 - 3 Pneumatic cylinder position sensors,
 - 2 Status indicator lamps,
 - 2 Start/stop buttons,
 - 7 Manual control input switches,
 - Heavy Rubber Belt,
 - Belt size 23x3 inch
 - Heavy Metal Box.
 - Module Dimension: 28 inch x 20 inch
- **Liquid Mixing Module:**
 - Water level sensor 10 Nos.
 - Solenoid valve 4Nos,
 - Water Pump 3Nos.
 - Mixing Motor 1 Nos,
 - Input Connector 10 Nos.
 - Output Connector 7Nos.
 - Output Relay 8Nos,
 - Mixing Tank 1 Nos,
 - Water Tank 3Nos.



VERITAS Engineering

- Pump Water Tank 3Nos,
- Aluminum body,
- 24volt Power Supply 1 Nos
- Selector Switch for ON/OFF 1 Nos,
- Push Button switches 2 Nos.
- Pneumatic Fittings
- Dimension:34 inch x30 inch x 12 inch (HxWxL)
- **Conveyor Belt & Bottle Filling Module:**
 - Heavy Rubber Belt,
 - 24 Volt Power Supply,
 - One DC Gear Motor Three Photo Sensor,
 - One Proximity Sensor,
 - Sensor Pinout
 - Relay Output Pin out,
 - Four Relay,
 - Control Box,
 - One Solenoid Valve One DC Water Pump,
 - One Water tank,
 - Connecting Cable,
 - Acrylic Body
 - Belt Size: 23 inch x 3 inch,
 - Module Dimension: 32 inch x 18 inch
 - Stepper motors
 - Temperature sensor,
 - Light sensor,
 - Potential dividers and their use
 - Transistors as switches.
 - Use of relays
 - ECU action and function,
 - Automotive control systems,
 - Sensor and actuator waveforms and signals,
 - Sensor and motor faults
- **Accessories:**
 - Connecting Wire: I set,
 - User Manual: 1 Nos.
 - Standard Accessories