# JDYEkon

## PLC for Jet Dyeing Machine

**Streamline**
**Controls Private Limited**
An ISO 9001-2015 Company

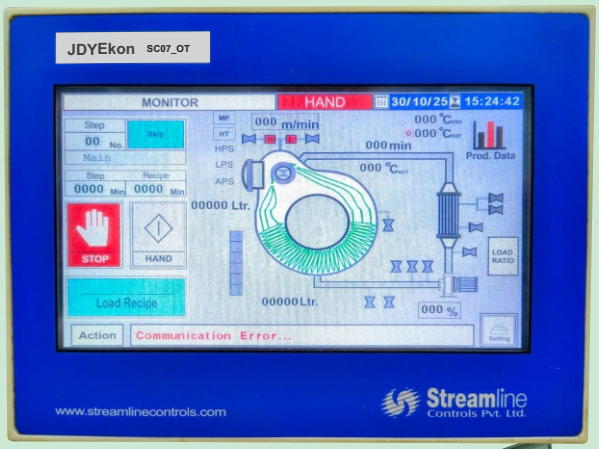
**Looking for an affordable yet powerful automation solution for your machines? The JDYEkon - PLC for Jet Dyeing Machine is designed to deliver high performance and flexibility for modern industrial needs. It features an intuitive color touchscreen interface, USB support, and other advanced technologies to ensure seamless operation. It's perfectly suited for demanding demanding industrial environments. The internal I/O system allows the JDYEkon to be precisely tailored to various dyeing applications — whether for yarn, fabric, or other materials - providing the ideal balance between functionality & cost Efficiency**

## Features :

- Technology
  - Control : Indigenous micro-controller based of art equivalent technology
  - Memory : Reliable flash / E2prom for programm / data retention
  - Inputs/Outputs : Protected using opto isolation
  - Power Supply : Efficient SMPS to withstand voltage variations
- Economical solutions to cater entire range - Conventional to full featured Machines
- Proven through years of reliable operations
- Display : 16 X 2 Lcd Display // 7" Touch Graphical Screen
- Most compact hence effective space utilization
- Accurate timings, Fast response provides consistent performance & hence improved
- Reduces electrical maintenance / down time hence ensures better productivity
- Easy one to one wiring for all inputs / outputs hence both time & cost effective installation
- All external connections through detachable connectors
- Channel Din rail card mounting
- Expandable Digital Inputs / Outputs, Analogue Inputs / Outputs & Pulse input for Flowmeter
- Operation Mode: Auto / Manual / Hold
- Auto operation of liquor heating/cooling for main vessel
- Pressurizing / Depressurizing of main vessel
- Fill / Drain / Rinse of main vessel as well as color tank
- Transfer of color chemical from main vessel to color tank or vice versa
- Messaging of functions on all screens.
- Operator call facility for loading/unloading, sampling, chemical addition, dyes addition, end of program, fabric entanglement. Function Skip / Insert facility.
- Linear transducers for level indication
- Required Permanent program each of 100 steps
- Extensive input / output / temperature test facility
- Indications at various level for diagnostics
- Data logging & analysis : Hourly production for last 24 hours
- RS 232 / RS 485 Serial interface
- Analog output for dosing
- Safety Password Protection for engineering parameter

## Specifications :

| | | |
|---|---|---|
| **Input** | Power | : 24 Vdc ± 10% |
| | Consumption | : 10 VA max. |
| **Control** | Digital Input | : 10-30 Vdc, 30 mA, PNP /NO |
| | Response Time | : 10 ms |
| | Digital Output | : Open collector; 24 Vdc / 30 mA |
| **Environment** | Temperature | : 0-50 ºC , Single zone; Three wire RTD profile controller. |
| | Humidity | : 5-95% Rh, Non-condensing |

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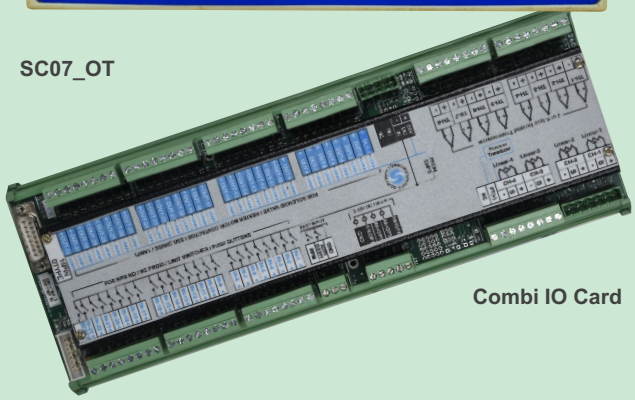

Combi IO Card

Economy

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