

JDYEkon – Controller for Jet Dyeing Machine

JDYEkon is multi functional controller incorporating micro controller, making it most versatile and cost effective solution optimally designed to best suit the automation needs of Jet Dyeing Machine in Textile Industries.

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
Economy	Economical solutions to cater entire range - Conventional to full featured Machines	
Reliability	Proven through years of reliable operations	
Display	16 X 2 Lcd Display	
Size	Most compact hence effective space utilization	
Quality	Accurate timings, Fast response provides consistant performace & hence improved quality	
Productivity	Reduces electrical maintenance / down time of the machine hence ensures better productivity	
Installation	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	
Inputs	Expandable Digital Inputs & Analogue Inputs	
Outputs	Expandable Digital Outputs & Analogue Outputs	
Timers	0 - 999.9 / 0 - 99.99 Seconds	
Operation	Mode: Auto / Manual	
	Auto operation of liquor heating/cooling for main vessel	
	Pressurizing / Depressurizing of main vessel	
	Fill/drain/rinse off 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.	
	Linear transducers for level indication	
35 Permanent programmed each of 100 steps		
Testing & Troubleshooting	Extensive input / output / temperature test facility	
	Indications at various level for diagnostics	
After sales services	Seldom required	
	Immediate replacement in worst case of failure, subject to warranty terms & conditions	
Optional Features	Linear transducers for level indication	
	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 Vac / Vdc \pm 10%	
	Consumption 10 VA max.	
Control		
Digital	10-30 Vdc, 30 mA , NPN /NO	
Response Time	10 ms	
Output		
Digital	Open collector	
	24 Vdc / 30 mA	
Environment		
Temperature	0-50 °C , Single zone: Three wire RTD profile controller.	
Humidity	5-95% Rh, Noncondensing	
Dimension		
Standard	144mm(H) X 144mm(W) X 56mm(D)	