

FULLY AUTOMATIC DYEING COMPUTERS

Simplex Family, Model 5xx Dyeing Computers are capable to operate different types of fully automatic machines with their special commands for processes. Consisting of two parts (HMI and PIO), the device provides convenience and flexibility at installation. The characteristic of its command constitution and the capabilities of control loops (PPL) operation start can be realized easily and quickly. A user-friendly color TFT screen supports icons that are special to commands and menus and provides convenient monitoring and usage. It can be used in many languages due to its Multi-Language-Support. Functional short-keys provide quick access to sub-menus. This enables convenient projecting and installation at low installation costs. The device provides sensitive control with high reliability and performance and it allows monitoring of operations being applied by PC. It can apply several processes at the same due to its parallel command running ability which again shortens process duration. Using the communication port the device works fully integrated into Focus (Enmos Central Monitoring Software). It transfers and stores process information to a computer in real-time.



General Specifications

- Easy-to-use 800 x 480 Color TFT screen (256.000 colors)
- Quick access to commands and sub-menus
- Easy operating with short-cut keys
- 3 Level Password Protection
- Reports for occurred alarms
- Fully integrated into Focus (Enmos Central Monitoring Software)
- User based menu access
- Event log system
- Easy program copying feature via USB memory stick
- Easy installation with plug-in sockets
- Manual controlling capability
- Easy project management with SPM (Simplex Project Manager)
- Fast operations with 3 function keys
- Programmable parametric security limitations
- Program copying feature
- Ability to enter password protected command, alarm and system parameters
- Ability to handle calibrations from different points
- Temperature-Time-Graphic
- Consumptions Reports
- Easy project copying via SD/MMC card
- Monitoring and settings over standard web browser

Commands	Information	Commands	Information
Temperature Control	Fast or Gradient Heating/Cooling	Circulation	MT AT1, MT AT2
Dosage	Progressive/Regressive Proportional Dosage (AT1, AT2)	Overflow	MT Overflow Washing
Dosage with Circulation	Dosage from AT1 to AT2	Pump / Reel	For Pump and Reel
Wait	Waiting along with the entered period	Chemical Request	For Liquid Chemical Kitchen
Warning	Fabric in, Fabric out, Add Salt, Add Soda, Add Chemical	Differential Pressure	Differential pressure function
Fill	MT, RT (Progressive or Regressive Fill), AT1, AT2	Heating	AT1 Heating AT2 Heating RT Heating
Normal Drain	MT, AT1, AT2, RT	Mixer	AT1 Mixer, AT2 Mixer, RT Mixer
Fast Drain	Drain with pump	PH Control	MT Automatic PH Control
Transfer	Transfer between MT, AT1, AT2, RT	Cycle Control	Automatic Regulation Control for Reels

Abbreviations: MT = Main Tank, AT1 = Additional Tank 1, AT2 = Additional Tank 2, RT = Reserve Tank

PIO Inputs / Outputs		Minimum	Maximum
Analog Input	PT1 00 (-200 - 800 °C)	2	8
	0/4-20 mA (input resistance 110 ohm)	2	8
Analog Output	0/4-20 mA (max load resistance 250 ohm)	4	16
Digital Input	5 - 24V DC/AC	16	128
Counter Input	5 - 24V DC/AC 1 KHz	2	2
Digital Output	250V AC 1 A Relay NO	32	128
Communication Port	RS 485	2	2
	RS 232	1	1

Programming	520
Program Capacity	200
Program Steps	100
Parallel Command	4
Sequential Programming	3

Technical Specifications					
Operating Voltage	85 ~ 265V AC 50-60Hz	Ethernet	10/100 Mbps	Isolation	2000V digital
Power Consumption	Max 20W	Memory	64 MB Ram, 32 MB Flash	Keyboard	27 keys
Operating Temperature	0 - 60 °C	SD/MMC Card	Up to 2 GB	Screen	800 x 480 Color TFT
Humidity	10 - 90% (non-condensing)	USB	2.0 Host	Dimensions	200 x 280 x 80 mm