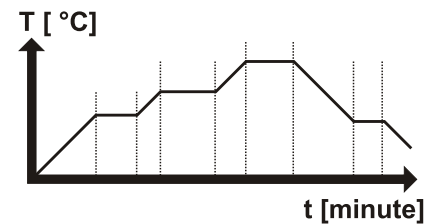


Heat Treatment Controller



ESM-9990 (96x96mm DIN 1/4)

- 4 digits Process and 4 digits Process Set
- Process input (TC K Type (-200)) C to 1300 C
- PID, P, PI, PD, ON/OFF control forms
- Heating function for control outputs
- 4 steps profile control (Ramp & Soak) function and Start-Pause-Stop
- Power off Back-up



ESM series process controllers are designed for measuring and controlling temperature and any process value. They can be used in many applications with their universal process input, multifunction control outputs, selectable alarm functions, serial communication unit and input/output modules. They are mainly used in glass, plastic, petro-chemistry, textile, automotive and machine production industries. Sensitive and developed controlling is done with its selectable ON-OFF, P, PI, PD, PID, AutoTune and Self Tune PID properties.

SPECIFICATIONS

PROCESS INPUT

Universal Input: TC
Thermocouple (TC): K type (-200; 1300 cycle) (IEC 584.1)(ITS90)
Accuracy: ± 0.25% of full scale for thermocouple
Cold Junction Compensation: Automatically ± 0.1°C/1°C
Line Compensation: Maximum 10 Ohm
Sensor Break Protection: Upscale
Sampling Cycle: 3 samples per second
Input Filter: 0.0 to 900.0 seconds

CONTROL

Control Form: ON/OFF, P, PI, PD, PID or Heating PID and Cooling PID together (Control form is programmable)

OUTPUT

Standard Relay Output: 5A@250V~(at resistive load) (It can be configured as control or alarm output)
Input/Output Modules: Two Input / Output Modules can be plugged in sockets.
Output Modules: SSR output module (max20mA@18V=)

SUPPLY VOLTAGE

100-240V~50/60 Hz (-15%;+10%) -6VA Universal

ENVIRONMENTAL RATINGS and PHYSICAL SPECIFICATIONS

Operating Temperature: 0...50°C
Humidity: 0-90%RH (none condensing)
Protection Class: IP65 at front, IP20 at rear
Dimensions:
 ESM-9990 : (96 x 96mm, Depth:87,5 mm)

ORDERING INFORMATION

ESM-9990 (96x96 1/4 DIN)	A	BC	D	E	/	FG	HI	/	U	V	W	Z
	1		0	1	/	02	00	/	1	0	0	1

A	Supply Voltage
1	100-240V~ (-15%;+10%) 50/60Hz

BC	Input Type(TC)	Scale(°C)
25	K ,NiCr Ni IEC584.1(ITS90)	-200°C,1300°C
28	S, Pt 10 % RH Pt IEC 584.1 (ITS90)	0 °C,1700 °C

E	Output-1
1	Relay Output

FG	Module-1	Product Code
02	SSR Driver Output Module	EMO-910

ELECTRICAL WIRING

