

HDL

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EMKO ESM-4950

EMKO Electronic provides a range of electronic products used in process-control applications. Their products include programmable multi function process-control instruments, counters, and time-relays.

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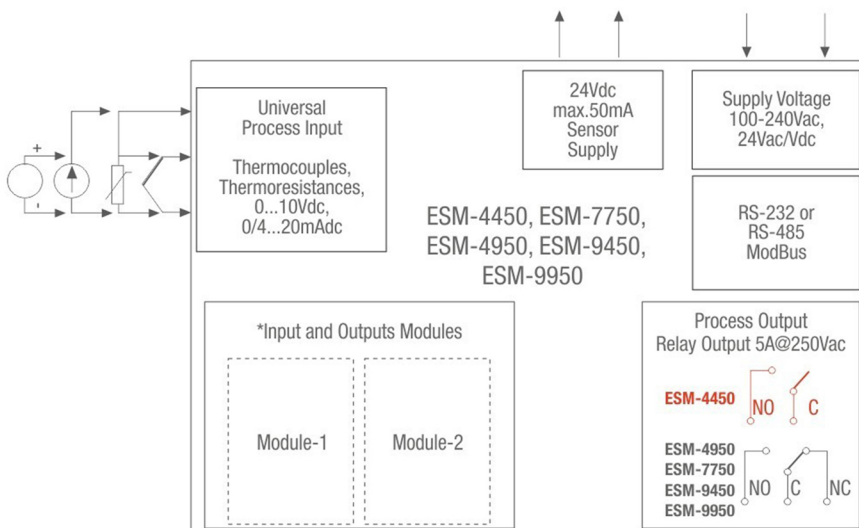
ESM-4950

"Smart IO Module" Process Controller

ESM-4950

Process controllers can be used to process input value (temperature, humidity, weight, pressure etc.) and control desired outputs accordingly. The Input/Output modules, Universal Inputs, RS 232/ RS 485 serial communication modules broaden the application fields of ESM-XX50 series process controllers. Some of the applications can be listed as follows; PID Process Control, Motorized Valve Control, Profile Control, Heating Failure Detection.

Connection Diagram



Features	Descriptions
Physical Features	
Dimensions	96 mm x 48 mm 86.5 mm
Protection Class	NEMA 4X (IP65 at front, IP20 at rear)
Installation	Fixed Installation
Storage / Operating Temperature	0...50°C
Storage / Operating Humidity	90 % max. (None condensing)
Electrical Features	
Supply Voltage and Power	100-240 Vac (-15%,+10%) 50/60 Hz, 6 VA 24 Vac (-15%,+10%) 50/60 Hz, 6 VA 24 Vdc (-15%,+10%) 6 W
Sensor Inputs	Universal Input TC, RTD, Voltage/Current (dc) Selectable by configuration parameters L (DIN43710), J, K, R, T, S, B, E, N (IEC584.1) (ITS90) PT100 (IEC751) (ITS90) Selectable by configuration parameters 0-50 mV, 0-5 V, 0-10 V Selectable by configuration parameters 0-20 mA, 4-20 mA
Optional Sensor Inputs	EMI-400 Dijital Input Module EMI-410 0/4-20mA Current Input Module EMI-420 CT 0-5A Input Module EMI-430 TC veya 0-50mVdc Input Module EMI-440 PT-100 Input Module EMI-450 0-10Vdc Input Module
Scale	
Accuracy	± 0.25% of full scale for Thermocouple ,Thermoresistance, and Voltage
Output	
Relay Output	5A@250 Vac at resistive load
SSR Output	
Analogue Output	
Optional Outputs	EMO-400 Relay Output Module (3A@250V) EMO-410 SSR Output Module (20mA@18V) EMO-420 Dijital (Transistor) Output Module (40mA@18V) EMO-430 0/4-20mA Current Output Module
Control	
Control Form	On / Off, P, PI, PD, PID
Reading Frequency	3 readings per second
Communication Protocols	MODBUS-RTU
Approvals	UL Recognized Component (File No : E 254103), GOST-R, CE