

## ESM-4950

"Smart IO Module" Process Controller

ESM-XX50 series 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.

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Features	Descriptions
<b>Physical Features</b>	
<b>Dimensions</b>	96 mm x 48 mm 86,5 mm
<b>Protection Class</b>	NEMA 4X (IP65 at front, IP20 at rear)
<b>Installation</b>	Fixed Installation
<b>Storage / Operating Temperature</b>	0...50°C
<b>Storage / Operating Humidity</b>	90 % max. (None condensing)
<b>Electrical Features</b>	
<b>Supply Voltage and Power</b>	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
<b>Sensor Inputs</b>	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
<b>Optional Sensor Inputs</b>	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
<b>Scale</b>	
<b>Accuracy</b>	± 0,25% of full scale for Thermocouple ,Thermoresistance, and Voltage
<b>Output</b>	

<b>Relay Output</b>	5A@250 Vac at resistive load
<b>SSR Output</b>	
<b>Analogue Output</b>	
<b>Optional Outputs</b>	EM0-400 Relay Output Module (3A@250V) EM0-410 SSR Output Module (20mA@18V) EM0-420 Dijital (Transistor) Output Module (40mA@18V) EM0-430 0/4-20mA Current Output Module
<b>Control</b>	
<b>Control Form</b>	On / Off, P, PI, PD, PID
<b>Reading Frequency</b>	3 readings per second
<b>Communication Protocols</b>	MODBUS-RTU
<b>Approvals</b>	UL Recognized Component (File No : E 254103), GOST-R, CE