



“Smart I/O Module” System
RS-232/485 Modbus RTU
Serial Communication Process Controllers

Process Controllers

ESM-4450 ESM-4950
ESM-7750 ESM-9450 ESM-9950



- ▶ 8 steps profile control (Ramp & Soak) function and start-hold-stop by using logic input module
- ▶ For process value and process control Retransmission feature
- ▶ Detection of heater failure by using 0...5Adc CT input module

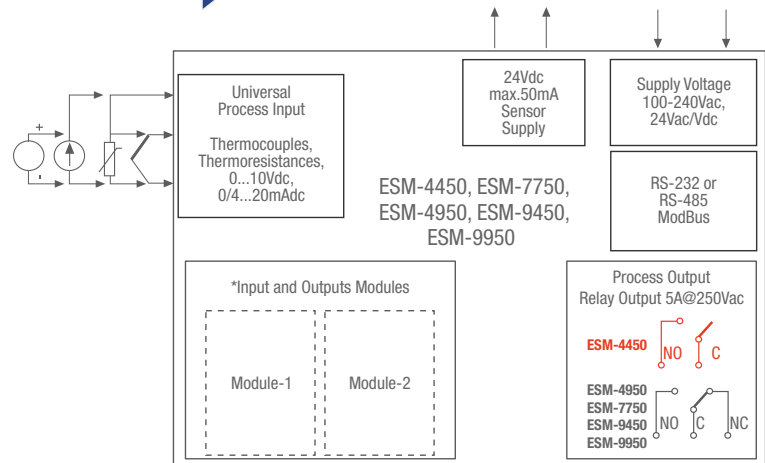
- ▶ Universal process input (TC, RTD, mVdc, Vdc, mAdc)
- ▶ Bumpless transfer
- ▶ Motorized valve control function

Specifications

4 Digits process (PV) and 4 Digits set (SV) display
Programmable heating, cooling and alarm functions for control outputs
Auto-tune and Self-tune PID
Dual or multi point calibration for dc Voltage/Current input
Configurable ON/OFF, P, PI, PD, and PID control forms

Technical Specification

Accuracy: ±0.25% of full scale for thermocouple, thermoresistance, mV, V ±0.70% of full scale for mA input
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



* Input and output modules can be mounted each modules sockets.
* One analog input module can be connected to the device at the same time.

