

Temperature Controllers

PID Temperature Controllers

ESM-4420 ESM-4920
ESM-7720 ESM-9420 ESM-9920



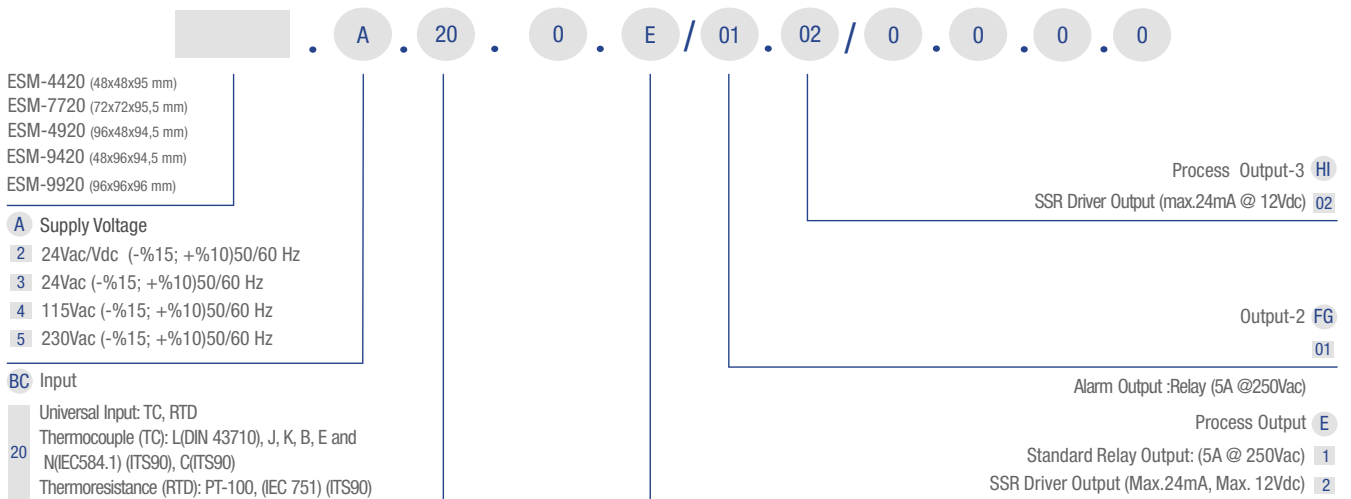
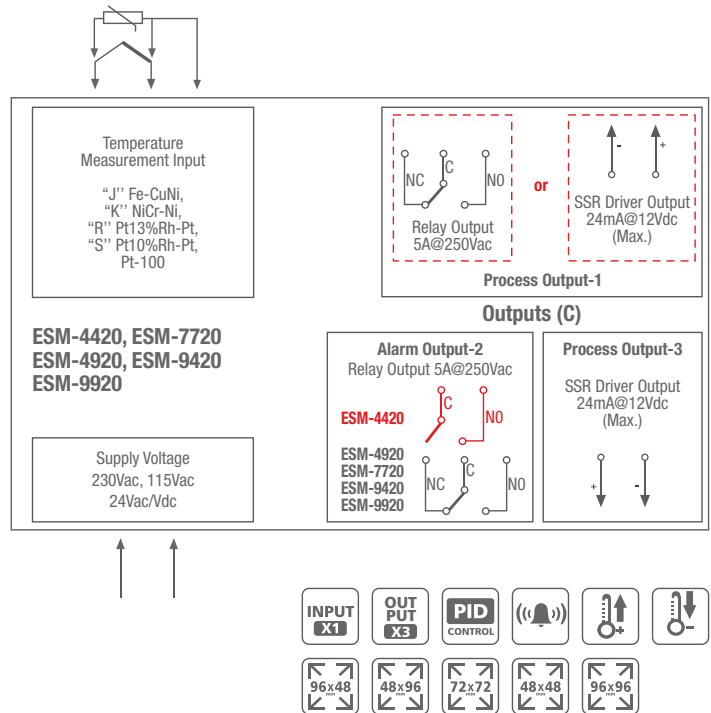
- ▶ Universal process input (TC,RTD)
- ▶ Self-Tune (Step Response Tuning) automatic adaptation of the coefficients to the system
- ▶ 2 Relays and 1 SSR drive output
- ▶ Soft Start Output For Resistance Durability

Specifications

- 4 Digits process (PV) and 4 Digits set value (SV) display
- Configurable ON/OFF, P, PI, PD, and PID control forms
- Programmable Heating or Cooling Functions for Control Output
- Alarm Functions for Alarm Output
- SET Value Limitation For System Protection
- Sensor Break Protection

Technical Specification

- Accuracy:** ±0.25% of full scale for thermocouple, thermoresistance
- 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:** 1.0 second



- ESM-4420 (48x48x95 mm)
- ESM-7720 (72x72x95,5 mm)
- ESM-4920 (96x48x94,5 mm)
- ESM-9420 (48x96x94,5 mm)
- ESM-9920 (96x96x96 mm)

- A** Supply Voltage
- 2** 24Vac/Vdc (-%15; +%10)50/60 Hz
- 3** 24Vac (-%15; +%10)50/60 Hz
- 4** 115Vac (-%15; +%10)50/60 Hz
- 5** 230Vac (-%15; +%10)50/60 Hz

- BC** Input
- Universal Input: TC, RTD
- Thermocouple (TC): L(DIN 43710), J, K, B, E and N(IEC584.1) (ITS90), C(ITS90)
- Thermoresistance (RTD): PT-100, (IEC 751) (ITS90)