

# HDL

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## EMKO ESM-7730

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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# HDL



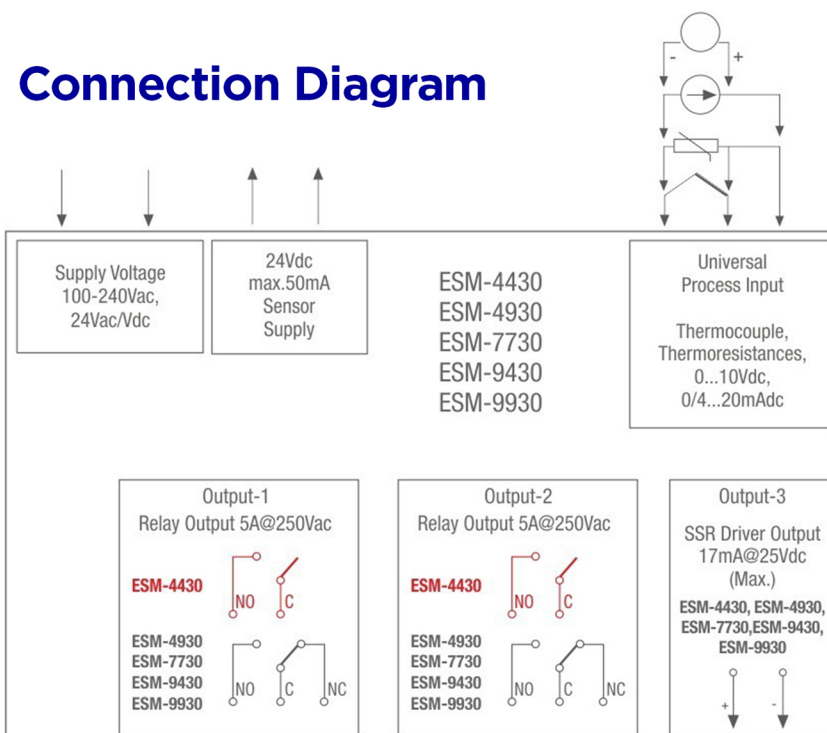
# ESM-7730

## Process Control Device with Universal Input & Dual Set

- Auto-tune and Self-tune PID
- Dual or multi point calibration for dc Voltage/Current input
- Bumpless transfer
- 4 Digits process (PV) and 4 Digits set (SV) display
- Universal process input (TC, RTD, mVdc, Vdc, mAdc)
- Configurable ON/OFF, P, PI, PD, and PID control forms
- Manual/Automatic mode selection for control outputs
- Programmable heating, cooling and alarm functions for control outputs



## Connection Diagram



| Features                        | Descriptions                                                                                                             |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Physical Features</b>        |                                                                                                                          |
| Dimensions                      | 72 mm x 72 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)                                                                                              |
| <b>Electrical Features</b>      |                                                                                                                          |
| Supply Voltage and Power        | 100-240 Vac (-15%,+10%) 50/60 Hz. 6 VA<br>24 Vac (-15%,+10%) 50/60 Hz. 6 VA<br>24 Vdc (-15%,+10%) 6 W                    |
| Sensor Inputs                   | Selectable by configuration parameters L (DIN43710),<br>J, K, R, T, S, B, E, N (IEC584.1) (ITS90)                        |
| Optional Sensor Inputs          | Selectable by configuration parameters 0-50 mV, 0-5 V, 0-10 V<br>Selectable by configuration parameters 0-20 mA, 4-20 mA |
| Scale                           |                                                                                                                          |
| Accuracy                        | ± 0.25% of full scale for thermocouple, thermoresistance, mV, V and mA input.                                            |
| <b>Output</b>                   |                                                                                                                          |
| Relay Output                    | 5A@250 Vac at resistive load                                                                                             |
| SSR Output                      | 17mA@25V Dc(Maximum)                                                                                                     |
| Analogue Output                 |                                                                                                                          |
| Optional Outputs                |                                                                                                                          |
| <b>Control</b>                  |                                                                                                                          |
| Control Form                    | On / Off, P, PI, PD, PID                                                                                                 |
| Reading Frequency               | 3 readings per second                                                                                                    |
| Communication Protocols         |                                                                                                                          |
| Approvals                       | UL Recognized Component (File No : E 254103), GOST-R, CE                                                                 |