**RE62 UNIVERSAL CONTROLLER**

- Universal input for RTDs, thermocouples and analog signals.
- PID on/off control algorithm
- Innovative SMART PID algorithm.
- Interface RS-485 Modbus (option).
- Universal power supply 24 V or 230 V a.c./d.c.
- Modular design fulfills the requirements for devices mounted in standard modular switchgears.
- Advanced graphic OLED display which guarantees clear indication, high contrast and wide viewing angle.
- Configuration parameters via keys or an optional RS485 and free eCon software.

**EXAMPLE OF APPLICATION**

![Example of Application Diagram](image)

**INPUTS:**
- DC

**OUTPUTS:**
- MODBUS
- RS 485

**GALVA- NICALLY ISOLATION:**
- Supply
- RS 485

**FEATURES:**
- Smart
- PID
- On/Off
- eCon software
- Password protection
- Power supply
- RS 485

**INPUTS:**

<table>
<thead>
<tr>
<th>Input type</th>
<th>Range</th>
<th>Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pt100</td>
<td>-100 ... 850°C</td>
<td>± (0.2 % of range + 1 digit)</td>
</tr>
<tr>
<td>Fe-CuNi (J)</td>
<td>-100 ... 1200°C</td>
<td>± (0.2 % of range + 1 digit)</td>
</tr>
<tr>
<td>NiCr-NiAl (K)</td>
<td>-100 ... 1370°C</td>
<td>± (0.2 % of range + 1 digit)</td>
</tr>
<tr>
<td>Current (I)</td>
<td>-24 mA ... -20 mA ... 20 mA ... 24 mA</td>
<td>± (0.2 % of range + 1 digit)</td>
</tr>
<tr>
<td>Voltage (U)</td>
<td>-72 mV ... -60 mV ... 60 mV ... 72 mV</td>
<td>± (0.2 % of range + 1 digit)</td>
</tr>
</tbody>
</table>

**OUTPUTS:**

<table>
<thead>
<tr>
<th>Output type</th>
<th>Properties</th>
<th>Load capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay voltageless output (OUT1*, OUT2, OUT3*)</td>
<td>NO contacts</td>
<td>250 V~/5 A~</td>
</tr>
<tr>
<td>Continuous current output (OUT1*)</td>
<td>0/4 ... 20 mA ± 0,2 %</td>
<td>at R_{load} ≤ 500 Ω</td>
</tr>
<tr>
<td>Continuous voltage output (OUT1*)</td>
<td>0 ... 10 V ± 0,2 %</td>
<td>at R_{load} ≥ 1 kΩ</td>
</tr>
<tr>
<td>Logic voltage output (OUT1*)</td>
<td>0/5V</td>
<td>30 mA</td>
</tr>
<tr>
<td>Supplying output (OUT3*)</td>
<td>24 V d.c. ± 15 %</td>
<td>max 40 mA</td>
</tr>
</tbody>
</table>

* - the presence of output depends on the controller version

**DIGITAL INTERFACE - OPTION**

<table>
<thead>
<tr>
<th>Interface type</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-485</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protocol</th>
<th>8N2, 8E1, 8O1, 8N1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baud rate</td>
<td>4.8, 9.6, 19.2, 38.4, 57.6 kbit/s</td>
</tr>
<tr>
<td>Broadcast address</td>
<td>253</td>
</tr>
</tbody>
</table>
**EXTERNAL FEATURES**

- Readout field: OLED display 128x64 pixel, amber color
- Overall dimensions: 53 x 110 x 60.5 mm
- Weight: < 0.2 kg
- Protection grade: from frontal side: IP30, from terminal side: IP20

**RATED OPERATING CONDITIONS**

- Supply voltage: 22...60 V a.c. 50...400 Hz / 20..60 V d.c.
- Temperature: ambient: -10...23...55°C
- Humidity: < 95%
- Operating position: vertical
- Preheating time: 15 min.

**SAFETY AND COMPATIBILITY REQUIREMENTS**

- Electromagnetic compatibility: noise immunity acc. to EN 61000-6-2, noise emissions acc. to EN 61000-6-4
- Pollution level: 2
- Installation category: III
- Maximal phase-to-earth operating voltage: for supplying circuit: 300 V, for measuring input and other circuits: 50 V
- Altitude above sea level: < 2000 m

**ORDERING**

- Universal controller RE62 - X
- Additional output OUT1: without additional output 0, relay 5 A 230 V 1, 0/4...20 mA (galvanically isolated) 2, 0...10 V (galvanically isolated) 3, 0/5 V 30 mA (for SSR, galvanically isolated) 4
- Additional output OUT3: without additional output 0, relay 5 A 230 V 1, supplying output 24 V d.c./ 40 mA (galvanically isolated) 2
- Interface RS-485: without Interface 0, with RS-485 (galvanically isolated) 1
- Version: standard 00, custom-made* XX
- Language: Polish P, English E, other* X
- Acceptance tests: without extra requirements 0, with an extra quality inspection certificate 1, acc. to customer’s request* X

The controller RE62 has in standard:
- universal input
- 1 relay output OUT2
- supplying output 24 V a.c./d.c., 230 V a.c./d.c.

**Order example:**

The code RE62-20100E0 means:

- RE62 – controller RE62,
- 2 – with continuous output 0/4...20 mA,
- 0 – without additional output OUT3,
- 1 – with interface RS-485,
- 00 – standard version,
- E – user’s manual in English,
- 0 – without extra requirements.