This triple-setpoint controller has a dual red/green LED display which shows the process variable and setpoint value at the same time. The built-in switching power supply has an extended range of 24 to 230VAC/DC and does not require any jumper setting. The analogue input is selectable for thermocouples J, K, R & S; Pt100; PTC1000; Ni100; NTC10k (refrigeration industry); Pt500/ Pt1000 (widely used in air-conditioning); 0 to 10V; 0 to 20mA and 4 to 20mA. Potentiometers with full scale up to 6kΩ and 150kΩ may also be used and there is a “latch on” function for quick calibration and setting of minimum, maximum and zero via the front keys.

Three setpoints are provided for control and/or alarm functions. They can be assigned to two relay outputs or an SSR output. The main control relay is rated at 8A. The alarm relay is rated at 5A (alarm modes: threshold, band, deviation). Open/Close logic for motorised valves is also available.

Software features include ON/OFF control, PID + Autotuning and Heating-Cooling PID with a neutral zone. A single output (1 relay + SSR) version is available with RS485 serial communication and Modbus-RTU/Slave protocol for supervisory systems.

Front of panel sealing to IP65 can be achieved using a gasket (optional). There is also an optional Memory Card to copy all of the configuration parameters from one controller to another without powering them up.

Software application LabSoftView for Windows enables setting and monitoring of parameters on a PC. A special software release which integrates both the basic control loop and the timer function is available upon request.
Calex Electronics Ltd | Leedon House | Chartmoor Road | Leighton Buzzard | Bedfordshire | LU7 4TN
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Issue B - Sept 17
Specifications subject to change without notice

**Model:**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INPUTS</th>
<th>OUTPUTS</th>
<th>POWER SUPPLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATR142-ABC</td>
<td>Selectable</td>
<td>2 Relays + SSR</td>
<td>24...230V AC/DC</td>
</tr>
<tr>
<td>ATR142-ABC-T</td>
<td></td>
<td>1 Relay + SSR + RS485</td>
<td>+/- 15% 50/60Hz</td>
</tr>
</tbody>
</table>

**Dimensions:**
- Front panel cut-out: 28.5 x 70.5 mm
- Suggested thickness: 2~8 mm
- Gasket for 32x74 Code 1600.00.082 (optional)
- Memory Card (optional) Code MEMORY C121
- Memory Card (optional) with battery Code MEMORY C243

**Atr142**

- Display: 1200
- Dimensions: 77 mm x 35 mm x 53 mm