



- Compact Design
- Free programmable
- Completely independent control
- Displaying the actual value
- Self-optimizing
- Wear-free
- Top-hat rail mounting

This device is made for temperature controlling of heatings, heated sample gas lines or heated systems. One heating loop can be controlled.

The UNI2010 consists of a controller and a separate solid state relay. Thus enables a wear-free switching of the load current. Therefore any numbers of cycle duties without wear and tear of contacts are possible. Any control parameters will be set directly at the module. The controller can be programmed both as a two- or three-point controller. All common measuring transducers (e. g. PT100, PT1000, Cu-CuNi, Fe-CuNi, Ni-CrNi, standard signal 0...20 mA, 0...10 V) are connectable. The actual value can be displayed on the monitor which is easy to read from bigger distances. Besides the controller outlet the module has an additional alert outlet. Connecting the power supply, measuring transducer, etc. is made by screw-type connections.



Digital form at:  
[www.cgs-company.de/downloads/MDZ\\_E\\_D\\_UNI2010.pdf](http://www.cgs-company.de/downloads/MDZ_E_D_UNI2010.pdf)

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### Technical data

• Power supply:	110 ... 240 VAC	• Position of use:	top-hat rail mounting
• Frequency:	48 ... 63 Hz		up to 1840 W arbitrary
• Capability of make-contact:	12 A at 240 VAC		above 1840 W heat sink on top
• Capability of alert-contact:	3 A at 240 VAC (ohm. Load)	• Temperature sensor:	PT100 3-wire (fact. setting CGS)
• Fuse max.:	16 A		PT100/1000 (2-wire)
• Power consumption controller:	5 W		Ni-CrNi
• Ambient temperature:	0°C ... +40°C		Current 0 - 20 mA / 4 - 20 mA
• Operating temperature inside:	40°C	• Temperature range:	0 - 200°C (fact. setting CGS)
• Operating temperature heat sink:	40°C	• Measurements (W/D/H):	100 x 125 x 113 mm
• Type of protection:	IP 20	• Weight:	700 g

### Pin assignment

- 1 = Sensor
- 2 = Sensor
- 3 = Sensor
- 4 = PE
- 5 = Control current circuit L1
- 6 = Control current circuit N
- 7 = Load (heating) N
- 8 = Alert contact
- 9 = Alert contact
- 10 = PE
- 11 = Working current circuit L2
- 12 = Load outlet (heating)



### Order numbers

#### Product

Temperature controller UNI 2010  
Fuse 5x20mm; 1 A; time-lag (10 pcs.)

#### Order number

1015801  
1020240