

Single-zone-temperature controller



- **Microprocessor single zone controller with LED-Display**
- **Optimized for use in the plastic moulding industry**
- **Available as 2- or 3-point controller**
- **Automatic self-tuning - adapts to different controlled systems**

Application

This temperature controller unit was specially designed to fit the demands of the plastic moulding industry. It comes up with a clear design and provides easy operation and various self-monitoring features.

The controller is used for hot-runners, extruders and presses.

Design

Single zone controller in norm-format 96 x 96mm for cabinet front panel integration.

Function

Closed-loop-control

Microprocessor-controller with automatic self-tuning establishes best control-results for fast nozzles as well as for slow manifolds or extruders.

Sensor-breaking-guard

In the case of a sensor-breakage, the controller switches over to manual power-control and effects the last used power set-point.

Alarm contact

Depending on the configuration, two alarm contacts are available :

2-point-controller :

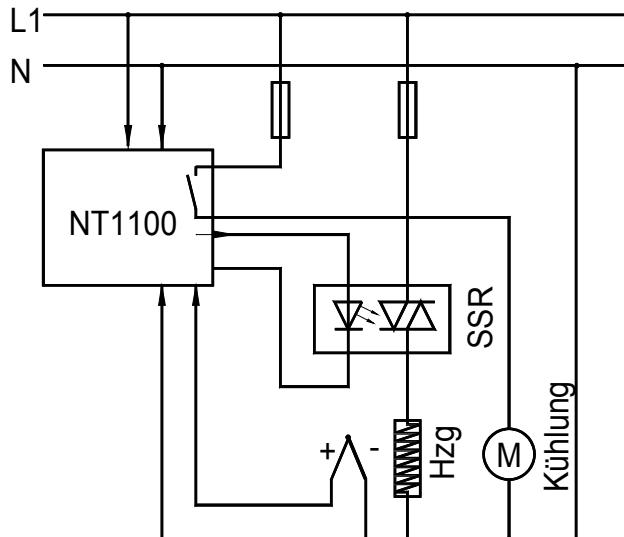
2 Alarm contacts available

3-point-controller :

1 Alarm contact available

The function of the alarms can be set-up in the menu.

Example for the wiring :



Specification

Mains voltage

230V~ ±10%, 48...62Hz

Control output

- Heating:

18V DC, max. 10mA, short-circuit proof
for the control of a solid state relay (SSR)
or floating relay contact
for relay control (Art.-Nr. 82081.9)

- Cooling:

floating relay contact
(only 3-point-operation)

Alarm output

Relay, floating, max. 250V~, 3A

TC-input

Configurable • Pt100 DIN IEC 751
• Fe-CuNi Typ J DIN IEC 584
• NiCr-Ni Typ K DIN IEC 584
internal zero point correction

Thermocouple is monitored for cable breakage and short-circuit.

Temperature range

Fe-CuNi (J)	0...800°C
NiCr-Ni (K)	0...999°C
Pt100	0,0...99,9°C -100...+200°C 0...400°C 0...800°C

Display

7-segment LED 10mm red

Type of memory

EAROM

Electrical connection

Terminal strip following DIN 40050

Dimensions

Housing 96 x 96mm for cabinet front-panel
integration following DIN 43700, depth 67mm
Protection: IP20; Front: IP50

Weight

ca. 400g

Operation conditions

Environmental temperature 0... 50°C

Description
NT 1100

Art.-Nr.
82081 (Output for SSR)
82081.9 (Output relay for
relay control)