

8-Zone Multi-Channel Controller GTR800

Type 192 mm x 96 mm



...Advantages:

- ✦ ...programmable input signal
- ✦ ...high calibration accuracy 0.2 - 0.25 % of input value
- ✦ ...8-zone system with 192 mm x 96 mm
- ✦ ...heater current monitoring (optional)
- ✦ ...collective alarm outputs with free allocation
- ✦ ...setpoint and actual value indicated at the same time
- ✦ ...manual and automatic function reversible
- ✦ ...tendency indication during normal operation
- ✦ ...RS232, RS485 interface (optional)
- ✦ ...CANopen interface (optional)

...General Description:

Our multi-channel controllers of the **GTR800** series are not only characterised by their small dimensions, they are also suitable for nearly all industrial temperature applications.

The standard design includes two-step and three-step controllers with logic outputs to control solid-state relays (SSR) or with relay outputs.

This range of controllers is completed by two programmable alarm outputs and many additional options (heater current measurement, RS485, RS232, or CANopen interface...etc.).

...Functions:

- P / PI / PD / PID behaviour
- Self-optimisation
- Ramp function
- Switching to manual operation
- Heater current measuring / monitoring
- Output ratio assumption on sensor break
- Alarm outputs with free allocation
- Setpoint switching
- Heater current measuring and monitoring

...Controller Equipment:

- Universal input for resistance thermometer (*)
- Universal input for thermocouple (*)
- Universal input for residual current (optional)
- Action output: bistable voltage (*)
- Action output: relay (optional)
- Alarm output 1: relay (*)
- Alarm output 2: relay (**)
- RS485 or RS232 interface (optional)
- CANopen interface (optional)
- Mains supply 230 VAC (*)
- Mains supply 24 VDC (optional)
- Mains supply 115 VAC (optional)

(*) - Basic standard version 01

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...Technical Data:

Input Pt100

Connection of 2- or 3-wire circuit.
Sensor break and short-circuit monitoring.
Sensor current < 1 mA.
Calibration accuracy < 0.2 %.
Linearity error < 0.2 %.
Ambient temperature influence on measuring span: < 0.01 % / K.

Input thermocouple

Sensor break protection and internal reference junction.
Reverse voltage protection.
Calibration is unnecessary up to an output impedance of 50 Ohm.
Calibration accuracy < 0.25 %.
Linearity error < 0.2 %.
Ambient temperature influence on measuring span: < 0.01 % / K.

Analogue input (d1, d2)

0...10 VDC (programmable range of indication)

Setpoint switching

Via external, voltage-free contact.
Switching voltage: approx. 24 VDC, max. 1 mA.

Action outputs

Voltage, bistable, 0/18 VDC, max. 10 mA, short-circuit proof.
Relay, N/O contact, max. 250 VAC, 3 A with $\cos\phi = 1$.

Data backup

EAROM, solid-state memory

CE marking

EMC according to 89/336/EEC
EN 50081-2, EN 50082-2

Mains supply

230 VAC +/- 10 %, 48...62 Hz, approx. 10 VA (standard)
24 VDC +/-10 % (optional)

Connections

Screw terminal blocks, protection type IP 20 (DIN 40050), isolation group C

Construction dimensions

192 x 96 mm, installation depth 122 mm
Protection type, front: IP 50
Weight approx. 900 g

Range of application

Storage temperature: -30...70 °C
Operating temperature: 0...50 °C
Class of application: KWF DIN 40040
75 % annual average rel. humidity, without condensation

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Front View:



Display "PARAMETER"	= Parameter content
Display "ZONE"	= Zone indicator
Display "SET"	= Parameter value indicator
Display "1...10"	= Actual value / setpoint indicator
Key "UP/DOWN"	= Key for scrolling up and down
Key "Z"	= Key for zone selection
Key "E"	= Enter key
Key "P"	= Parameter key
Key "F1"	= Function key
Key "F2"	= Function key for preselection

Order Code:

GTR800 (standard)	-	1	01	
Auxiliary power 230 VAC 24 VDC		1 2		
Outputs: Bist. voltage (+) Relay outputs			01 02	(standard - version 01) (standard - version 02)

Accessories:

Heater current measurement, single-phase : GTRHZ-01
 Heater current measurement, three-phase : GTRHZ-03