



Компактный контроллер R2700

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48

Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81

Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54

Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Единый адрес для всех регионов: cmn@nt-rt.ru || www.camille-bauer.nt-rt.ru

использовано с разрешения официального
дистрибьютора АО «ЮЕ-Интернейшл»

R2700

Compact Controller and Limiter with Program Functions

3-349-382-03
6/10.14

- IP 67 protection
- Sampling cycle – 100 ms ¹⁾
- PDPI control without overshooting
- Control parameter adaptation can be started at any time
- Freely configurable outputs – 4 relay and 2 transistor
- 2-step, 3-step, continuous action and step-action controller
- Ratio, differential, mean value, slave and switch controller, cascade control
- Program controller – 8 programs with 12 segments each and 4 control tracks
- Split range controller (discontinuous/continuous – step/continuous)
- Hot-runner control with actuating circuit and booster circuit
- Water cooling control (non-linear cooling effect with evaporation)
- Limiter for aperiodic quantities
- Data logger for actual values and setpoints
- Alarm history with time stamp
- Infrared interface at front panel with optional adapter
- Password protection
- CompactConfig software tool
- Interfaces: Profibus DP, RS485 Modbus, HB-Therm Protocol
- Handling modules for SIMATIC Manager
- Functionally compatible with electronic controller R2600

New !
Profibus DP



Features

- Sensor input for thermocouples, Pt100, Ni100 or direct current, direct voltage
- Thermocouple input immune to leakage current (up to 230 V)
- Suitable for zones with temperature rises of up to 100 K/s
- Monitoring for sensor failure, reversed polarity and short-circuits
- Plausible regulated temperature becomes active in the event of sensor failure
- Setpoint ramps/staircases, proxy setpoint, setpoint limiting
- Heating circuit monitoring without additional transformer
- Heating current monitoring via external current transformer (optional)
- Numerous monitoring functions and alarms
- User-defined default settings can be stored – 4 parameter sets – default parameters can be restored
- Parameter exchange via binary inputs and interface

Description

The universal, user-friendly compact device in 1/8 DIN format (48 x 96 mm) is well suited for precision control tasks without overshooting, as well as for temperature limiting.

The integrated infrared interface in the front panel makes it possible to configure the controller with CompactConfig software either online or offline, and allows for online viewing of the control process, as well as read out and storage to memory of values from the data logger and alarm history. It can be used in machinery and equipment manufacturing, as well as in the food processing and luxury food industries, thanks to IP 67 protection at the front panel.

Filter and Functions with Distorted Controlled Variable

Designation / Parameter	Function	Limitation
Peak filter	Individual erroneous measurements caused by, for example, electrostatic discharge to the sensor, are suppressed.	---
Smoothing filter	In accordance with controlled system dynamics, several measured values are combined for control purposes to avoid an unsteady controlled variable.	---
Actual value correction, actual value factor	Linear correction of measured values, if, amongst other factors, measured temperature deviates from the temperature to be measured / to be displayed due to a temperature gradient.	---
Adaptive measured value correction	Suppression of constant periodic, or slowly changing oscillation.	Not active if period is $> \frac{1}{2} T_u^*$
Oscillation disabling (oscillation period: 0.3 to 20 s)	Suppression of oscillation with a constant period, if the period is longer than $\frac{1}{2} T_u$.	---
Feed-forward control	Suppression of controlled variable swells and dips in the event of load fluctuations, e.g. caused by operation/standstill of a machine/system	Load fluctuation interval much greater than T_u^*
Response in event of sensor failure, sensor error manipulating factor	If operation must be continued with a defective sensor, the controller reads out a plausible manipulated variable in order to maintain the working level.	---

* T_u = delay time

Detailed information is included in the operating instructions.

1) 100 ms with integrated transformation for suppression of 50/60 Hz including harmonics up to the 13th harmonic

R2700

Compact Controller and Limiter with Program Functions

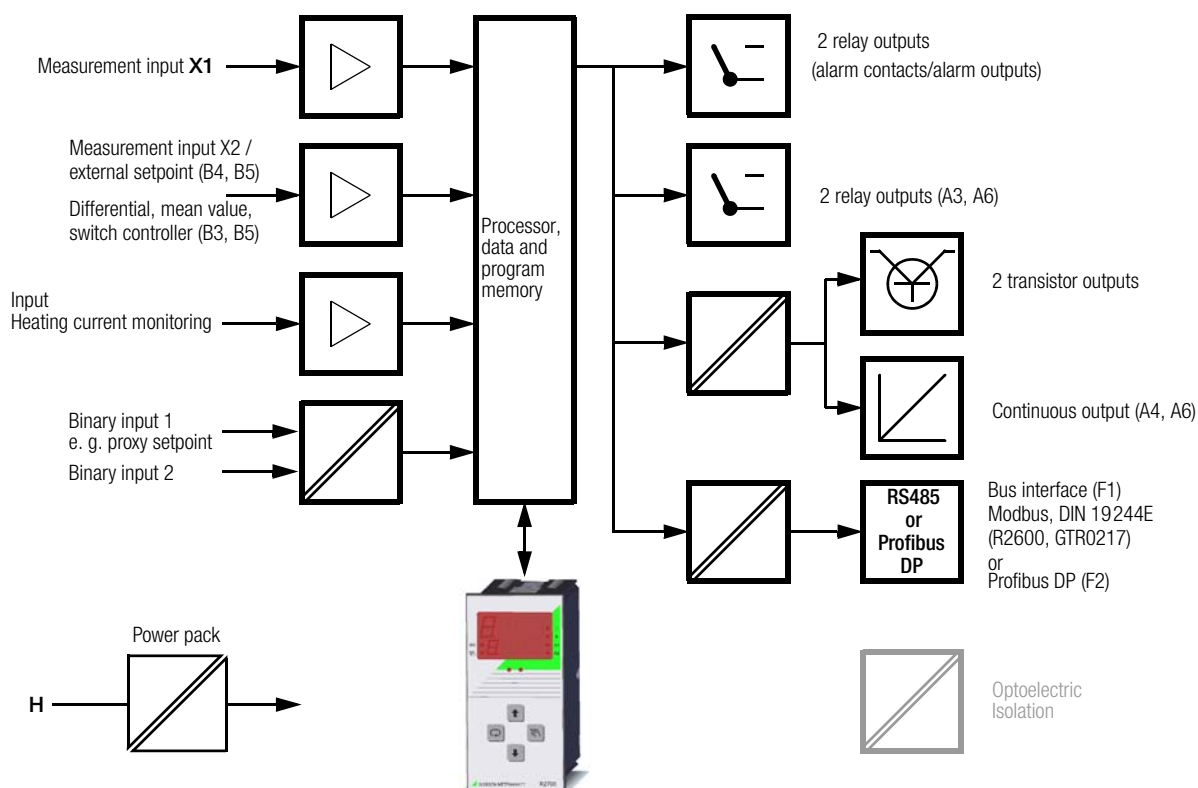


Figure 1: Schematic Diagram

Applicable Regulations and Standards

IEC 61010-1 / DIN EN 61010-1/ VDE 0411 T1	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1 General requirements
DIN EN 61326-1 VDE 0843-20-1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements
DIN VDE 0106 T1	Protection against electric shock
DIN EN 60529 / VDE 0470 part 1	Test instruments and test procedures – Degrees of protection provided by enclosures (IP code)

Technical Data

Inputs

Measurement input	Transformer resolution: < 0.02% MR
Measuring range	See order information
Sampling cycle	100 ms with integrated transformation for suppression of 50/60 Hz including harmonics up to the 13 th harmonic
Offset compensation	Possible by means of parameter entry

Sensor Input Configuration

Designation	Sensor Type	Selectable via Keypad
B1	Thermocouples Pt100, Ni100	See order information for measuring ranges, can be configured as °C / °F and 0.1° / 1°
B2	Direct voltage, direct current	0 / 4 to 20 mA, 0 / 2 to 10 V, scalable display range

Thermocouple Types J, L, K, N, R, S, B, C, E, T and U

Continuous overload	AC sinusoidal, 50 Hz / 3 V, 1 V DC
Input impedance	> 50 kΩ
Remote	Integrated equalizing circuit
Error message	For broken sensor, polarity reversal, short-circuit (heating circuit monitoring) and temperature above or below measuring range

Resistance thermometers Pt100, Ni100

	2-Wire Connection:	3-Wire Connection
Cable resistance (both directions)	Adjustable from 0 to 30 Ω (by means of keystroke with short-circuited sensor)	0 to 30 Ω, compensated
Continuous overload	3 V / 50 Hz AC, sinusoidal 1 V DC	
Measuring Current	Approx. 0.2 mA	
Error message	For broken sensor or short-circuit, or temperature outside of measuring range	

Direct Voltage, Direct Current

	Direct Voltage	Direct Current
Measuring range	0 / 2 to 10 V, configurable	0 / 4 to 20 mA, configurable
Continuous overload	100 V	60 mA DC
Input impedance / load	> 150 kΩ	< 50 Ω
Error message	For input quantities above or below the measuring range	For input quantities above or below the measuring range

Compact Controller and Limiter with Program Functions

Heating Current Monitoring Input

Meas. range, GTZ 4121 000 R... current trans. input	0 to 42.7 A AC
Measuring range, heating current monitoring input	0 to 10 V DC

Binary Inputs

Activation of various functions via a floating contact, or a potential-free electronic switch (optocoupler etc.), default setting: activation of the proxy setpoint.

Open circuit voltage: approx. 15 V

Short-circuit current: approx. 1 mA

Binary Input		
Activated	Voltage drop via contact	< 2 V
Inactive	Residual current via contact	< 0.02 mA

Display

	Controlled Variable	Command Variable, Heating Current or Manipulated Variable
Display Range	4-place digital	4-place digital
Display height	10 mm	7.5 mm

Status and Switching Outputs

	Symbol	Display Type
Status	W2, manual	LED
Switching outputs	I, II, A1, A2	LED

Controlled Variable

Designation	Measuring Range	Display Resolution
B1, B3, B4	Thermocouples, Pt100, Ni100	0.1 / 1 °C / °F
B2, B4, B5	0 / 2 to 10 V 0 / 4 to 20 mA Scalable: -1999 to +9999 digits	1 digit

Heating Current

Measuring Range	Display Resolution
Scalable from 0 to 100.0 A	0.1 A

Control Performance

Setpoints

Setpoint limiting	Adjustable upper and lower setting limits
Proxy setpoint	Activated via binary input or bus, adjustable value
Setpoint increase (boost)	Activated via binary input or bus, value and maximum duration can be configured
Ramp function (separate for rise and fall)	Specification of a gradual temperature change in degrees per minute, activated by means of: <ul style="list-style-type: none"> – Turn on auxiliary voltage – Change current setpoint value – Activate proxy setpoint – Switch from manual to automatic operation

Configurable Control Modes

PDPI 2-step controller	For heating or cooling, or cooling with water with non-linear cooling effect due to evaporation
PDPI 2-step controller	For heating hot-runner tools
PDPI 3-step controller	For heating and cooling
PDPI 3-step controller	For heating and cooling with water with non-linear cooling effect due to evaporation
Continuous-action controller	For heating or cooling
Continuous-action controller with split range	For continuous heating and discontinuous cooling, or for continuous cooling and discontinuous heating, for continuous heating and cooling with step-action motor or for continuous cooling and heating with step-action motor
Step-action controller	For heating or cooling
Limiter	Deactivation of PDPI control after limit value violation
Limit transducer	Two / three-step controller without time response

Measurement Input Combination

Differential controller	Temperature difference is compensated.
Mean value controller	The mean temperature is settled.
Slave controller	Setpoint value is pre-set as discontinuous signal.
Switch controller	Depending on the operating state, a control circuit with only one actuator can be controlled at two different (temperature) measuring points.
Ratio controller	Two controlled variables are controlled at a ratio determined by a setpoint. To this end, the command variable is obtained from the product of the setpoint value in a thousandth and the actual value of the partner channel. An activated setpoint ramp influences the command variable. The controller type of the partner channel can be chosen independently, e.g. fixed-value control.

Control Parameter Setting Ranges

Display	Meaning	Setting Range
<i>Pb I</i>	Proportional band switching output I	0.1° ... MRS
<i>Pb II</i>	Proportional band switching output II (with 3-step controller)	0.1° ... MRS
<i>dbnd</i>	Dead band (for 3-step and step-action controllers)	0.0° ... MRS
<i>tu</i>	Path delay time	0.0 ... 900.0 s
<i>tc</i>	Read-out cycle time	0.1 ... 300.0 s

¹⁾ MRS = measuring range span

Self-Tuning

Can be started any time from any operating state by pressing a key, or via the interface. Control parameters can be changed.

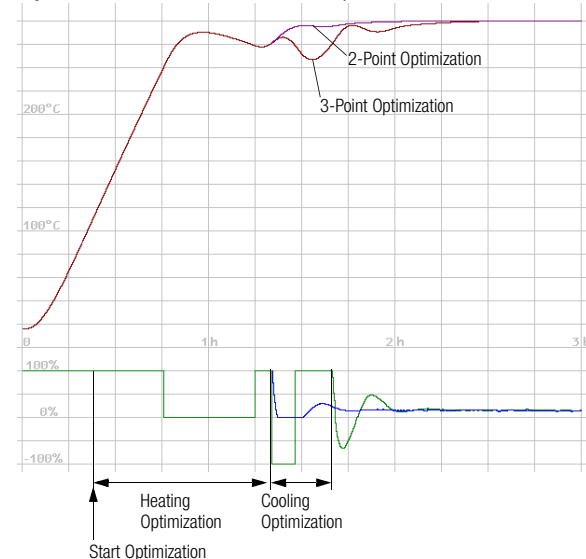


Figure 2 : Control Performance with Self-Optimization

R2700

Compact Controller and Limiter with Program Functions

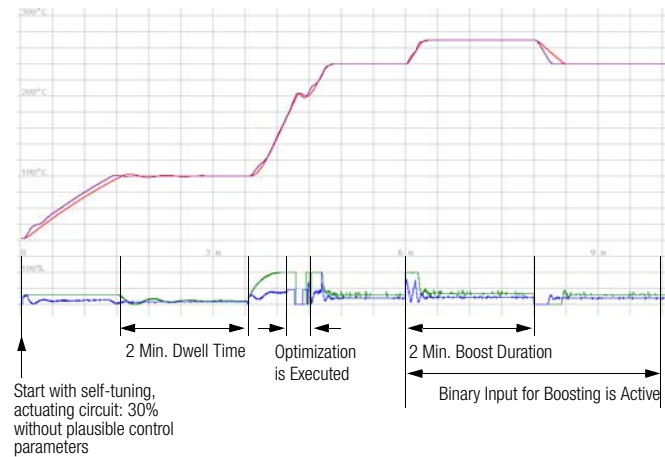
Hot Runner Control Functions

Actuating Circuit

Actuation with a reduced manipulating factor and dwelling at a specific actuation setpoint serves to dry out hygroscopic heating elements.

Boosting – Temporarily Increased Setpoint

Temporarily increasing the setpoint frees (up to 600 s) clogged mould nozzles of “frozen” material remnants.



Limit Contacts / Alarm Outputs

Functions	Alternatively configurable: min, max, min + max, relative / absolute, NO / NC contact, actuation suppression off / on
Contact type	Floating normally open contact, common phase for switching outputs A1 and A2
Switching capacity	250 V AC / DC, 2 A, 500 VA / 50 W
Service life	> 5 x 10 ⁵ switching cycles at nominal load
Interference suppression	Utilize external RC element (100 Ω - 47 nF) at contactor

Alarms

- Broken sensor, reversed polarity
- Two upper and two lower limit values, relative and absolute
- Heating current / heating circuit errors
- Adaptation errors
- Hardware errors
- Overloading of the measurement inputs
- Reference junction errors
- Parameter error

Alarm History

The alarm history includes 100 error status entries with the respective time stamps in a circulating buffer. Recording is restarted each time the device is reset.

Outputs

Control Outputs

Function	Switching output I (heating) Switching output II (cooling)
Read-out cycle	Adjustable within a range of 0.1 to 300 s
Output type	Relay or transistor output
Relay output	Floating normally open contact
Switching capacity	250 V AC / DC, 2 A, 500 VA / 50 W
Service life	> 5 x 10 ⁵ switching cycles at nominal load
Interference suppression	Utilize external RC element (100 Ω - 47 nF) at contactor
Transistor output	Suitable for commercially available semiconductor relays (SSR)

Switching Status	Open-Circuit Voltage	Output Current
Active (load ≤ 800 Ω)	< DC 17 V	10 ... 15 mA
Inactive	< DC 17 V	< 0.1 mA

Overload limit Short-circuit, continuous interruption

Continuous Outputs

Output function	Actuator output for proportional actuator
Output quantity	0 (2) ... 10 V at > 1 kΩ load, 0 (4) ... 20 mA at < 300 Ω load
Signal flow direction	rising/falling
Resolution	0.1% of upper range value
Accuracy	< 3% of upper range value

Limit Value Monitoring

Two upper and two lower limit values can be configured. Alarm memory and actuation suppression are adjustable.

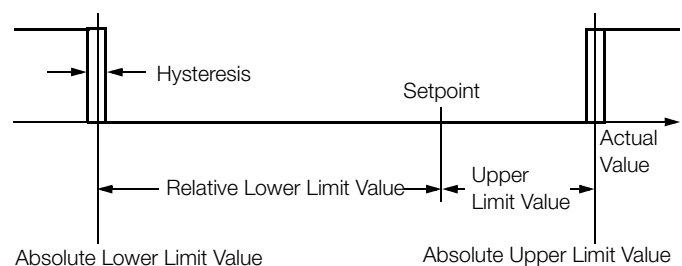


Figure 3: Schematic Representation of Relative Limit Value Monitoring

Heating Circuit Monitoring

Without external transformer, without additional parameters
Configurable Heating circuit monitoring active / inactive
Error Messages for 100% heat without rising temperature, i.e. in case of:
short-circuited thermocouple,
interrupted heating,
no sensor in heating circuit

Compact Controller and Limiter with Program Functions

Heating Current Monitoring

Heating current acquisition

Via external current transformer GTZ4121000R...^{*)} (via other external current transformer, scaling required)

^{*)} See data sheet Z4121 regarding mech. installation and electrical connection.

Heating current nominal value transfer by means of keystroke

Error Messages for	
– Antivalence	Actuator signal OFF + heating current ON Actuator signal ON + heating current OFF
– Below current setpoint	Below heating current setpoint by more than 20% with actuator signal ON
Indication	Error message permanently wired to A1

Data Logger

The data logger has enough capacity for 3600 sampled value pairs including actual values and manipulated variables in a circulating buffer.

Recording duration can be set within a range of 6 minutes to 12 days.

Recording is restarted each time the device is reset.

Accuracy

Controlled Variable Input	Error Limit ²⁾ Relative to MRS ¹⁾	Resolution
Thermocouple		
– type J, L, K, N, E	< 0.7 %	0.1 K
– type U, C	< 1.4 %	0.1 K
– type B > 600 °C, type R, S, T	< 2.0 %	0.1 K
Resistance thermometers		
– Pt100	< 0.7 %	0.1 K
– Ni100	< 1.4 %	0.1 K
Direct voltage, direct current	< 0.5%	0.01 % MRS ¹⁾ + 1 Digit
	Error limit	
Remote	± 2 K	
	Error limit relative to measured value	Offset error
Heating current input	5%	± 0.1%
	Error limit relative to upper range value	Resolution
Continuous output	< 1.5%	< 0.1%

¹⁾ MRS = measuring range span

²⁾ Error limit relative to MRS < 0.1% upon request

Reference Conditions

Reference Quantity	Reference Condition
Ambient temperature Tref	23 °C ± 2 K
Reference junction temperature Tver	23 °C ± 2 K
Auxiliary voltage	Nominal value ± 1%, at AC 50 Hz ± 1% sinusoidal, allowable common-mode voltage to electrically connected inputs: 0 V DC / AC
Warm-up time	5 minutes (inputs within measuring range)

Influencing Quantities and Influence Error

Influencing Quantity	Nominal Range of Use	Maximum Influence Error
Ambient temperature	0 °C ... + 50 °C	± 0.05% MRS ¹⁾ / K
Reference junction temperature Tver	0 °C ... + 50 °C	0.1 K (Tver – Tref) / K
Cable resistance		
– Thermocouple	RL = 0 ... 200 Ω	0.1% MRS ¹⁾ / 10 Ω
– Pt100, 2-wire	RL = 0 ... 30 Ω	3 K / Ω (adjustable)
– Pt100, 3-wire	RL = 0 ... 30 Ω	0.2% MRS ¹⁾ / 10 Ω
Warm-up influence	≤ 5 min.	± 1%

¹⁾ MRS = measuring range span

Electromagnetic Compatibility

Interference emission	EN 61326 measuring method: EN 55011, class B limit value		
interference immunity	EN 61326		
Test type	Standard	Test severity	Criterion
ESD	EN 61000-4-2	4 kV contact discharge	B
		8 kV atmospheric discharge	B
E field	EN 61000-4-3	10 V / m 80 ... 1000 MHz	A
Burst	EN 61000-4-4	4 kV at all connector cables	A
Surge voltage	EN 61000-4-5	0.5 kV asymmetrical DC system	B
		2 kV asymmetrical AC system	B
		1 kV symmetrical AC system	B
		2 kV asymmetrical, all other lines	B
HF	EN 61000-4-6	10 V 0.15 ... 80 MHz, all terminals	A
Voltage dip	EN 61000-4-11	½ period	A

Electrical Safety

Safety class	II, panel-mount device per DIN EN 61010-1, section 6.5.4
Fouling factor	2, per DIN EN 61010-1, section 3.7.3.1 and IEC 664
Measuring category	II, per DIN EN 61010, appendix J, and IEC 664
Operating voltage	300 V per DIN EN 61010

Ambient Conditions

Annual mean relative humidity, no condensation	75%
Ambient temperature	
– Nominal range of use	0 °C ... + 50 °C
– Operating range	0 °C ... + 50 °C
– Storage range	-25 °C ... + 70 °C

Auxiliary voltage

Nominal Value	Nominal Range of Use		Power Consumption
	Voltage	Frequency	
110 V AC 230 V AC	85 to 265 V AC	48 to 62 Hz	Typically 1.5 W
24 V DC	20 to 30 V DC	–	

R2700

Compact Controller and Limiter with Program Functions

Data Interfaces

IR Interface

Baud rate 19.2 kBaud

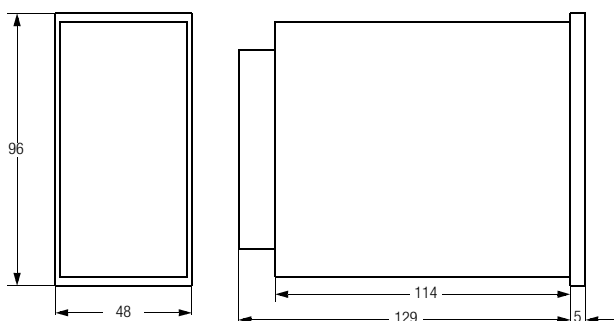
Accessory bidirectional IR-USB interface adapter Z270I is required.

Bus Interface (designation E1)

Type (interchangeable)	RS-485	Profibus DP
Maximum number of devices	32	32
Number of strands	3 screw terminals	
Transmission Speed	9,6 / 19,2 kBaud	9,6kBaud... 12 MBaud
Selectable protocol	Modbus HB-THERM DIN concept19244 (R2600, GTR0217)	EN50170
Designation	F1	F2

Mechanical Design

Type	Panel-mount device per DIN 43700, housing made of plastic per UL V0, side-by-side mounting without separator
Panel cutout	45 ^{+0,6} x 92 ^{+0,8} mm
Mounting position	Front panel vertical or tilted back up to 45°
Protection	IP 67 front IP 20 housing IP 20 terminals
Weight	approx. 190 g

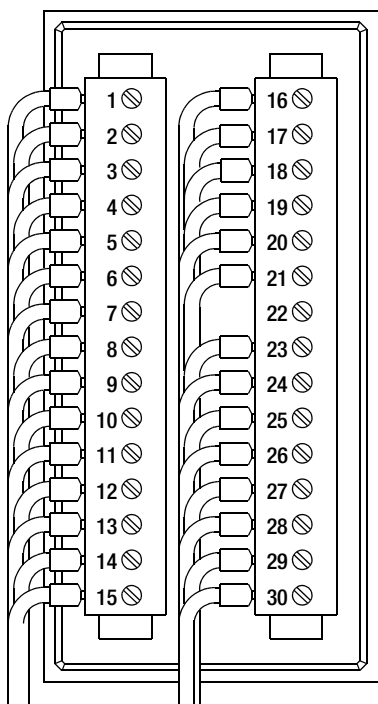
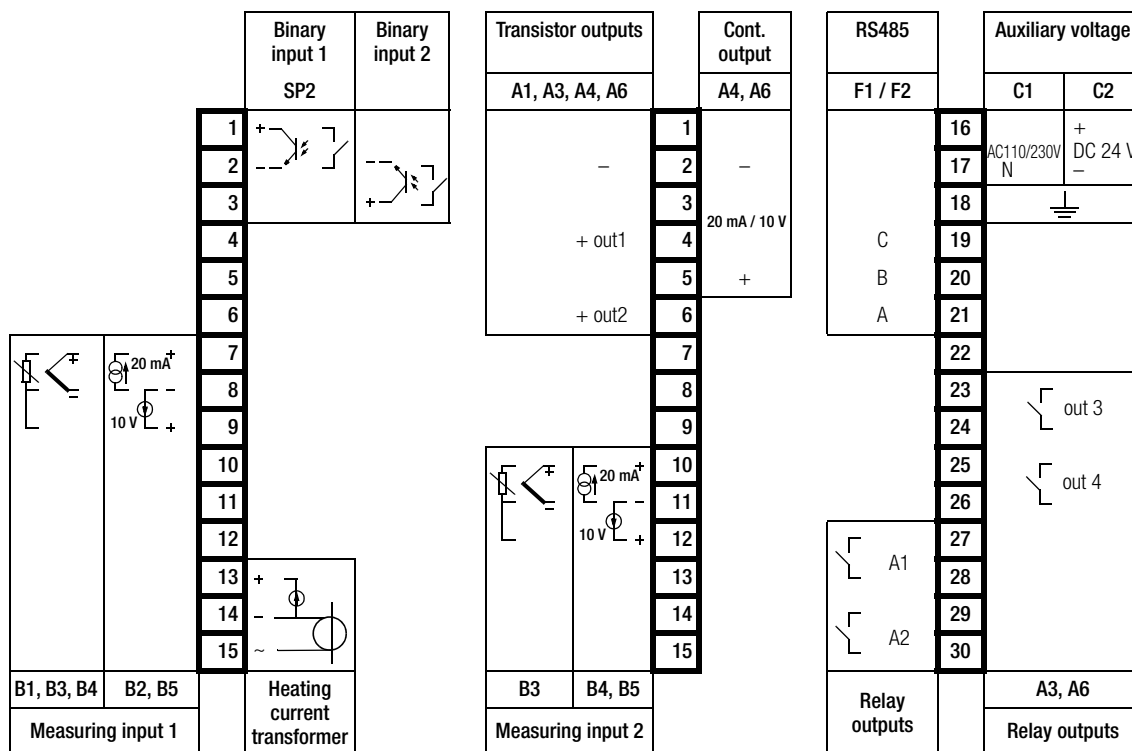


All dimensions in mm

Figure 4: Housing Dimensions

Compact Controller and Limiter with Program Functions

Electrical Connection



Connector components Screw terminals, suitable for wire with 1.5 square mm cross-section or two-core wire-end ferrules with a cross-section of 2 x 0.75 square mm

Figure 5, Connector Terminal Positions

R2700

Compact Controller and Limiter with Program Functions

Included

- Controller as ordered depending upon designation
- 2 mounting components
- Operating instructions, language according to designation

Order Information

The following applies for the selection of order features: Only *one* designation beginning with any given capital letter may be selected. If the capital letter is followed by zeros only, the designation need not be entered.

Characteristic	Designation
Compact controller , 48 x 96 mm, IP 67, with self-tuning, proxy setpoint and 2 alarms, hot-runner functions, data logger, alarm history, infrared interface for configuration tool and graphic tool	R2700
Controller type	Outputs
Two-step, three-step controller, step-action controller	2 transistor, 2 relays
Two-step, three-step controller, step-action controller	2 transistor, 4 relays
Continuous, split range controller, Discontinuous-action controller	1 continuous, 2 transistor, 2 relays
Continuous, split range controller, Discontinuous-action controller	1 continuous, 2 transistor, 4 relays
Measuring ranges	
Configurable measurement input	
Thermocouple	
Type J, L	0 ... 900 °C / 32 ... 1652 °F
Type K, N	0 ... 1300 °C / 32 ... 2372 °F
Type R, S	0 ... 1750 °C / 32 ... 3182 °F
Type B	0 ... 1800 °C / 32 ... 3272 °F (accuracy specified as of 600 °C)
Type C	0 ... 2300 °C / 32 ... 4172 °F
Type E	0 ... 700 °C / 32 ... 1292 °F
Type T	0 ... 400 °C / 32 ... 752 °F
Type U	0 ... 600 °C / 32 ... 1112 °F
Resistance thermometer	
Pt100	- 200 ... 600 °C / -328 ... 1112 °F
Ni100	- 50 ... 250 °C / -58 ... 482 °F
Ohm	0 ... 340 Ω
Linear	0 ... 50 mV
Measurement input: configurable standard signal	
0 / 2 ... 10 V or 0 / 4 ... 20 mA	B2
Two measurement inputs are jointly configurable same as designation B1 for differential, mean value and switch controller	B3
First measurement input same as designation B1 and second measurement input same as designation B2 configurable for slave controller	B4
Two measurement inputs are jointly configurable same as designation B2 for differential, mean value, slave and switch controller	B5
Auxiliary voltage	
85 V ... 265 V AC, 48 Hz ... 62 Hz	C1
20 to 30 V DC	C2
Plug connector	
Default	D0
Rear terminal	D1
Data interface	
none	F0
RS485	F1
Profibus DB	F2
Configuration	
Default settings	K0
Configured per customer requirements	K9
Operating Instructions	
German	L0
English	L1
Italian	L2
French	L3
None	L4

R2700

Compact Controller and Limiter with Program Functions

Sample order: R2700 A3 B1 C1 F1

Feature (plain text)		Designation
Compact controller	48 x 96 mm, IP 67, with self-tuning, proxy setpoint and 2 alarms, hot-runner functions, data logger, alarm history, infrared interface for configuration tool and graphic tool	R2700
Controller types	Two-step, three-step, step-action controller with 2 transistor outputs and 4 relay outputs	A3
Measuring range	Thermocouple, Pt100, Ni100	B1
Auxiliary voltage	85 ... 265 V AC, 48 ... 62 Hz	C1
Plug connector	Default	D0
Data interface	RS485	F1
Configuration	Default settings	K0
Operating Instructions	German	L0

Standard Models

Characteristic	Designation
Compact controller 48x96 mm with 2 relay and transistor outputs each, temperature measurement input, auxiliary voltage: AC 85 V ... 265 V R2700 A1 B1 C1 F0 K0 L0	R2700-V001
Compact controller 48x96 mm with 4 relay and 2 transistor outputs, temperature measurement input, auxiliary voltage: AC 85 V ... 265 V R2700 A3 B1 C1 F0 K0 L0	R2700-V002
Compact controller 48x96 mm with 1 continuous and 2 relay and transistor outputs each, temperature measurement input, auxiliary voltage: AC 85 V ... 265 V R2700 A4 B1 C1 F0 K0 L0	R2700-V003
Compact controller 48x96 mm with 1 continuous and 4 relay and 2 transistor outputs, temperature measurement input, auxiliary voltage: AC 85 V ... 265 V R2700 A6 B1 C1 F0 K0 L0	R2700-V004

Accessories

Characteristic	Article Number
Current transformer , top-hat rail mounting, for acquiring heating current	
With 3 inputs (one 3-phase consumer or 3 single-phase AC consumers)	GTZ4121000R0001
With 4 inputs (one 3-phase consumer + one single-phase AC consumer, or four single-phase AC consumers)	GTZ4121000R0002
USB R2700	Z270I

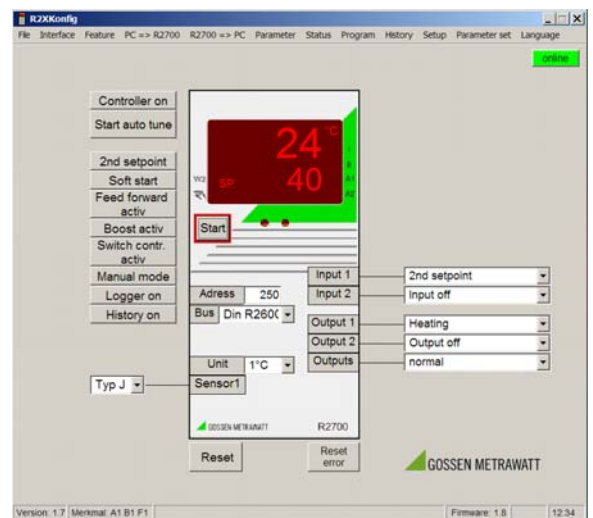
CompactConfig software for R2500 / R2700

(German, English, French, Italian)

- Software for online and offline device and parameters configuration
- Automatic generation of a wiring diagram
- Online viewing of the control process
- Read-out and storage of values from the data logger and from alarm history
- Administration of parameter sets
- Graphic setup of the program controller

You require the IR adapter Z250I to be able to use the configuration tool.

Further information regarding accessories, as well as software which can be downloaded free of charge, is available on the Internet at: www.gossenmetrawatt.com



По вопросам продажи и поддержки обращайтесь:

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Казань (843)206-01-48



Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81

Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54



Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Единый адрес для всех регионов: cmn@nt-rt.ru || www.camille-bauer.nt-rt.ru

PROCESS CONTROL ENGINEERING

ANGULAR POSITION ENGINEERING

HEAVY CURRENT ENGINEERING

