

2-CHANNEL DIFFERENCE CONTROLLER



GIR 2002 NS / DIF - 020

Art. no. 604871 (standard model)
2-channel difference controller, input signal (2x) 0 ... 20 mA

GIR 2002 NS / DIF - 420

Art. no. 600960 (standard model)
2-channel difference controller, input signal (2x) 4 ... 20 mA

GIR 2002 NS / DIF - 010

Art. no. 601846 (standard model)
2-channel difference controller, input signal (2x) 0 ... 10 V

General:

The GIR 2002 NS / DIF is a display, control and regulating device for difference measurements. The measuring inputs are designed for standard signals. Please state your desired input signal at order transaction.

Application:

- difference controller for 2 channels
- detection of leaks
- control of delivery and exit air
- pressure compensation, etc.

Specifications:

Measuring inputs:	(2x) 4 ... 20 mA, (2 x) 0 ... 20 mA or (2 x) 0 ... 10 V Please state your desired input signal at order transaction!
Display range:	-1999 ... 9999 digit, decimal point, initial and final values freely selectable
Recommended range:	≤2000 digit
Accuracy:	<0.2 % FS ±1 digit (at nominal temperature = 25 °C)
Measuring rate:	approx. 100 measurings / s
Display/regulation:	difference: input 1 - input 2
Outputs:	1 normally open contact, 1 change-over contact output options like HLR-control output, analog output or continuous output available - p.r.t. previous page
Controller states:	5 or 6, selectable (e.g. 2-point-regulator, 3-point-regulator, ...)
Limit values:	freely selectable
Display:	approx. 13 mm high, 4-digit red LED-display
Operating conditions:	-20 ... +50 °C, 0 ... 80 % RH (non condensing)
Voltage supply:	230 V AC, 50 / 60 Hz, approx. 6 VA
Panel mounting:	with fixing clamps
Electrical connection:	via screw-type / plug-in terminals: cable diameters from 0.14 ... 1.5 mm ² .
Protection rating:	front side IP54, IP65 upon request
Housing:	standard rack type housing
Dimensions:	96 x 48 mm (W x H) (Front)
Installation depth:	approx. 115 mm (incl. screw-type / plug-in terminals)
Panelcut-out:	90,5 ^{+0.5} x 43,0 ^{+0.5} mm (W x H)
Scope of supply:	Device, 2 fixing clamps, 1 sealing GGD4896, unit stickers EAK 36, screw-type / plug-in terminals, mounting- and operation manual

for further technical data refer to GIR 2002 (page 122)

Option:

Output for control output, analog output and other voltage supply p.r.t. previous page

Accessories and spare parts:

EBW 3

Art. no. 601137
Interface converter for connection of one EASYBus-module to the USB interface of your PC. (Power supply: from the USB port)

EBS 20M

Art. no. 601158
20 channel measurement data acquisition software

GIA 20 EB / GIR 2002 - Configuration-Software

Software for easy configuration of the types GIA 20 EB, GIR 2002, GIR 2002 PID, download under www.greisinger.de

TEMPERATURE REGULATOR



GIR 2000 Pt

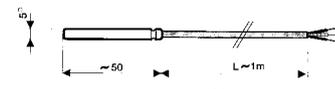
Art. no. 601701 (standard model)
Temperature regulator complete with sensor

GIR 2000 Pt OF

Art. no. 601703 (standard model)
Temperature regulator without sensor

Specifications:

Measuring input:	Pt100 (3-wire)
Measuring ranges:	-50.0 ... +200.0 °C
Resolution:	0.1 °C
Measuring rate:	approx. 4 measurings / s
Accuracy:	<0.3 % FS ±1 digit (at nominal temperature = 25 °C)
Temperature probe:	GTF200 Pt100 / 3-wire Art. no. 600018 Pt100-probe, DIN class B (±0.3 °C at 0 °C), V4A-tube Ø 5 mm 50 mm length, approx. 1 m silicone cable.
Output:	voltage free relays output, change-over-contact, switching power: 10 A (ohmic load), 250 V AC
Controller state:	2-point, min-/max-alarm
Switching point:	Activation and deactivation time freely adjustable
Response time:	≤0.5 s
Display:	approx. 13 mm high, 4-digit red LED-display
Miscellaneous:	permanent self-monitoring, digital zero point and scale adjustment
Voltage supply:	230 V AC, 50/60 Hz (standard) optionally other supply voltages are possible
Power consumption:	approx. 5 VA
Working temperature:	-20 ... +50 °C
Relative humidity:	0 ... 80 % RH (non condensing)
Storage temperature:	-30 ... +70 °C
Panel mounting:	by fixing clamps
Electrical connection:	via screw-type / plug-in terminals cable diameters from 0.14 ... 1.5 mm ² .
Protection rating:	front side IP54, IP65 upon request
Housing:	standard rack type housing
Dimensions:	96 x 48 mm (W x H) (front frame)
Installation depth:	approx. 115 mm (incl. screw-type / plug-in terminals)
Panelcut-out:	90,5 ^{+0.5} x 43,0 ^{+0.5} mm (W x H)
Scope of supply:	Device, 2 fixing clamps, 1 sealing GGD4896, unit stickers EAK 36, screw-type / plug-in terminals, mounting- and operation manual, GIR 2000 Pt only: probe



Accessories and spare parts:

GGD4896

Art. no. 603042
additional sealing for panel mounting IP65

APG-4

Art. no. 602827
Housing for surface mounting (incl. seal GGD4896)
Device assembled in housing, Dimensions: 125 x 75 x 127 mm (H x W x D) (without screw connections), Cable insert: screw connections M12 x 1.5 and M16 x 1.5
additional suitable temperature probes **p.r.t. page 205-220**



Standard variant:

GIR2000-PT-024D

Art. no. 603491
GIR 2000 PT with voltage supply 24 V DC (22 ... 27 V)

GIR2000-PT-OF-024D

Art. no. 602280
GIR 2000 PT OF with voltage supply 24 V DC (22 ... 27 V)

HANDHELD INSTRUMENT

DISPLAY / CONTROLLER

LOGGER- / BUS SYSTEMS

TRANSMITTER

TEMPERATURE PROBE

ALARM / PROTECTION, LEVEL