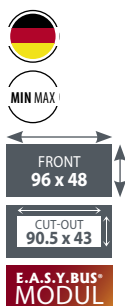


UNIVERSAL DISPLAYING DEVICE



HIGHLIGHTS:

- Universal inputs for normalized signals, frequency, Pt100, Pt1000 and thermocouples, freely adjustable
- Integrated isolated power supply for measuring transducer (24V / 22 mA)
- Extensive self-monitoring and diagnostic system
- Serial interface - EASYBus
- Limit functions, digital filter, min-/max value memory

GIA 2000

Art. no. 600963 (Standard model)
Universal Displaying Device

Specifications:

Measuring input: universal input (freely adjustable) for

Normalized signal:	4 ... 20 mA, 0 ... 20 mA, 0 ... 1 V, 0 ... 2 V, 0 ... 10 V, 0 ... 50 mV
Resistance thermometer:	Pt100 (3-wire), Pt1000 (2-wire)
Thermocouples:	Types J, K, N, S, T
Frequency:	TTL-signal, switching contact
Flow, Rotational speed:	TTL-signal, switching contact
Counter up / down:	TTL-signal, switching contact

Serial interface

Measuring rate: approx. 100 measurings / s (for normalized signal and frequency) or approx. 4 measurings / s (for temperature)

Measuring resp. display ranges, resolution:

Temperature:	Pt100: -200 ... +850 °C or -50.0 ... +200.0 °C;
(display unit selectable: °C or °F)	Pt1000: -200 ... +850 °C;
	Type J: -170 ... +950 °C or -70.0 ... +300.0 °C;
	Type K: -270 ... +1372 °C or -70.0 ... +250.0 °C;
	Type N: -270 ... +1350 °C or -100.0 ... +300.0 °C;
	Type S: -50 ... +1750 °C;
	Type T: -270 ... +400 °C or -70.0 ... +200.0 °C

Normalized signals: -1999 ... 9999 digit, decimal point, start and end value freely selectable

Recommended range:	≤2000 digit
Frequency:	0.000 Hz ... 10 kHz, display freely scalable
Rotational speed:	0.000 U/min ... 9999 U/min, selectable prescaler: 1 ... 1000
Flow:	0 ... 9999 l/s, 0 ... 9999 l/min, 0 ... 9999 l/h
Counter up/down:	counter value remains on power loss 0 ... 9999 (10 mio. with prescaler), pulse frequency: ≤10 kHz
Serial interface:	Displaying and controlling from values coming via the serial interface.

Accuracy: (at nominal temperature = 25 °C)

Normalized signal:	<0.2 % FS ±1 digit (at 0 ... 50 mV: <0.3 % FS ±1 digit)
Resistance thermometer:	<0.3 % FS ±1 digit
Thermocouples:	<0.3 % FS ±1 digit (at type S: <0.5 % FS ±1 digit)
Point of comparison:	±1 °C
Frequency, rotational speed, counter:	<0.1 % FS ±1 digit
Analog output: (option)	freely scalable analogue output 0 ... 20 mA / 4 ... 20 mA or 0 ... 10 V

Display:	approx. 13 mm high, 4-digit red LED-display
Interface:	serial interface, electrical isolated, EASYBus compatible
Power supply for sensor:	integrated isolated power supply for measuring transducer: 24V DC ±5 %, 22 mA (for DC-supply 18 V DC)
Miscellaneous:	permanent self-monitoring, digital filter function, measuring range boundary (limit)
Voltage supply:	230 V AC, 50/60 Hz (standard)
Power consumption:	approx. 5 VA
Working temperature:	-20 ... +50 °C

Relative humidity:	0 ... 80 % RH (non condensing)
Storage temperature:	-30 ... +70 °C
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:	rack type housing
Dimensions:	96 x 48 mm (W x H) (front frame)
Mounting 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

Variants:

GIA 2000-012D	Art. no. 602103 GIA 2000 with voltage supply: 12 V DC (11 ... 14 V)
GIA 2000-024D	Art. no. 601501 GIA 2000 with voltage supply: 24 V DC (22 ... 27 V)
GIA 2000-115A	Art. no. 604861 GIA 2000 with voltage supply: 115 V AC
GIA 2000-230A-AA	Art. no. 601405 GIA 2000 with analog output 0 ... 20 mA, 4 ... 20 mA (changeable)
GIA 2000-230A-AV	Art. no. 602725 GIA 2000 with analog output 0 ... 10 V

Accessories and spare parts:

GGD 4896	Art. no. 603042 additional sealing for panel mounting IP65
EAK 36	Art. no. 603227 Unit stickers (black with white text) for 36 different units for lettering of display devices.



EBW 3	Art. no. 601137 Interface converter for connection of one EASYBus-module (e. g. EASYLog) to the USB-interface of your PC. (Power supply via USB)
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EBS 20M	Art. no. 601158 Software for recording and archiving of the measuring values (p.r.t. page 46).
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Temperature probes p.r.t. page 67-86
for other accessories p.r.t. page 43-44