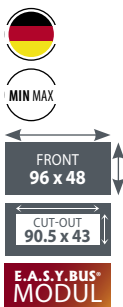


UNIVERSAL DISPLAYING DEVICE



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: (display unit selectable: °C or °F) | Pt100: -200 ... +850 °C or -50.0 ... +200.0 °C; 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: | 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: 24 V 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 |

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| 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) |
| 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 |

| 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. |



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|-----------------------------------|--|
| 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) |
| EB5 20M Art. no. 601158 | software for recording and archiving of the measuring values (p.r.t. page 100). |
| Temperature probes | p.r.t. page 205-220 |

for other accessories p.r.t. page 152-153