

Universal Displaying Device

FRONT
48 x 96

E.A.S.Y.Bus - Modul

FUNCTIONS:



GIA 2000

Product-ID 600963 (Standard version)

Universal Displaying Device

| Specification: | |
|---|---|
| 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: | -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: 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) optionally other supply voltages are possible |
| Power consumption: | approx. 5 VA |
| Operating temperature: | -20 ... +50 °C |
| Relative humidity: | 0 ... 80 % RH (non condensing) |
| Storage temperature: | -30 ... +70 °C |

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 (max. 240 devices can be combined)
- Limit functions, digital filter, min-/max value memory

TEMPERATURE DISPLAY

PRESSURE CONTROL

TACHOMETER, FLOW METER, ETC.

| | |
|--|--|
| Housing: | standard rack type housing 48 x 96 mm (front frame) |
| Installation depth: | approx. 115 mm (incl. screw-type/plug-in terminals) |
| Panel mounting: | with fixing clamps panel cutout: 43,0 ^{+0.5} x 90,5 ^{+0.5} mm (H x W) |
| Electrical connection: | via screw-type/plug-in terminals cable diameters from 0.14 ... 1.5 mm ² . |
| Protection class: | front side IP54, with optional sealing IP65 |
| Electromagnetic immunity (EMC): | EN61326 (appendix A, class B) |
| Scope of supply: | device, manual |

Versions:

GIA 2000-012D

Product-ID 602103

GIA 2000 with voltage supply: 12 VDC (11-14 V) ¹⁾

GIA 2000-024D

Product-ID 601501

GIA 2000 with voltage supply: 24 VDC (22-27 V) ¹⁾

GIA 2000-024A

Product-ID 604869

GIA 2000 with voltage supply: 24 VAC ±5 %

GIA 2000-115A

Product-ID 604870

GIA 2000 with voltage supply: 115 VAC ±5 %

GIA 2000-AA

Product-ID 601405

GIA 2000 with analog output 0 - 20 mA, 4 - 20 mA (reversible) ¹⁾

GIA 2000-AV

Product-ID 602725

GIA 2000 with analog output 0 - 10 V ¹⁾¹⁾ For analog output with option 12VDC or 24VDC

Accessories and spare parts:

GGD 4896

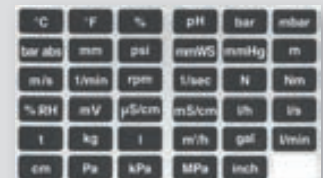
Product-ID 603042

additional sealing for panel mounting IP65

EAK 36

Product-ID 603227

Unit stickers (black with white text) for 36 different units for lettering of display devices.



EBW 1

Product-ID 601136

interface converter EASYBus => RS232 (p.r.t. page 104)

EBS 20M

Product-ID 601158

software for recording and archiving of the measuring values (p.r.t. page 77).

Temperature probes

p.r.t. page 129 - 142

for other accessories p.r.t. page 104