

UNIVERSAL DISPLAYING DEVICE

FRONT
48 x 96

E.A.S.Y.Bus - Modul

FUNCTIONS:



TEMPERATURE DISPLAY

PRESSURE CONTROL

TACHOMETER, FLOW METER, ETC.

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

GIA 2000

Product-ID: 600963 (Standard version)
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:	-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
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

Variants:

GIA 2000-012D

Product-ID: 602103

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

GIA 2000-024D

Product-ID: 601501

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

GIA 2000-230A-AA

Product-ID: 601405

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

GIA 2000-AV

Product-ID: 602725

GIA 2000 with analog output 0 - 10 V

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 3

Product-ID: 601137

Interface converter for connection of one EASYBus-module (e. g. EASYLog) to the USB-interface of your PC. (Power supply via USB)

EBS 20M

Product-ID: 601158

software for recording and archiving of the measuring values (p.r.t. page 76).

Temperature probes

p.r.t. page 145 - 159

for other accessories p.r.t. page 112