FRONT
36 x 72

E.A.S.Y.Bus - Modul

*FUNCTIONS:*

MIN MAX




NEW DESIGN!

EASY HANDLING
HIGH PRECISION
LOW PRICE

*HIGHLIGHTS:*

- *Universal input for standard signals, frequency, Pt100, Pt1000 and thermocouples*
- *2 integrated switching outputs (electrically isolated)*
- *Configurable as display or controller (5 switching functions)*
- *Fast controlling and monitoring*
- *Comprehensive self-test and diagnostic system*
- *Serial EASYBus interface (max. 240 devices)*
- *Limit functions, digital filter, min- / max- value memory*
- *Adjustable alarm delay*

## GIR 300

*Product-ID: 604692 (standard model)*
Universal displaying and controlling device

| Specifications: | |
|---|---|
| **Measuring input:** | universal input for |
| **Standard signals:** | 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, rotational speed:** | TTL signal, switching contact |
| **Up- / down- counter:** | TTL signal, switching contact |
| **Serial interface** | |
| **Measuring rate:** | approx. 100 measurements / s (standard signal)<br>approx. 4 measurements / s (temperature and frequency) |
| **Measuring and display range, resolution:** | |
| **Temperature: (unit switchable between °C and °F)** | **Pt100:** -200 ... +850 °C or -50.0 ... +200.0 °C;<br>**Pt1000:** -200 ... +850 °C; **Type J:** -170 ... +950 °C;<br>**Type K:** -270 ... +1350 °C; **Type N:** -270 ... +1300 °C;<br>**Type S:** -50 ... +1750 °C; **Type T:** -270 ... +400 °C |
| **Standard signals:** | -1999 ... 9999 digit, decimal point,<br>start and end value freely selectable |
| **recommanded 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 |
| **Up- / down- counter:** | The counter reading is stored also in power-down state.<br>0 ... 9999 (10 million with prescaler),<br>pulse frequency: ≤ 10 kHz, selectable prescaler: 1-1000 |
| **Serial interface:** | Display and control functions with values obtained via serial interface |
| **Accuracy: (at nominal temperature = 25 °C)** | |
| **Standard signals:** | < 0.2 % FS ±1 digit (at 0-50 mV: < 0.3 % FS ±1 digit) |
| **Resistance thermometer:** | < 0.5 % FS ±1 digit |
| **Thermocouples:** | < 0.3 % FS ±1 digit (for type S: < 0.5 % FS ±1 digit) |
| **Point of comparison accuracy:** | ± 1 °C |
| **Frequency, rotational speed, counter:** | < 0.1 % FS ±1 digit |
| **Outputs:** | 2 volt-free relay switching outputs<br>relay 1: normally-open contact<br>relay 2: normally-closed contact |
| **Switching functions:** | 2-point, 3-point, 2-point with alarm, combined min-/max- alarm with 1 output, separate min-/max- alarm with 2 outputs |
| **Switching points, switching hysteresis:** | freely selectable |
| **Response time:** | ≤ 20 ms for standard signals<br>≤ 0.5 s for temperature and frequency |
| **Display:** | approx. 13 mm high, 4-digit red LED display |
| **Interface:** | serial interface, electrically isolated, compatible to EASYBus |
| **Miscellaneous:** | continuous self-diagnostics, digital filter function, measuring range limitation |

| | |
|---|---|
| **Supply voltage:** | 9 ... 28 V DC (standard) |
| **Optional:** | G24: 22 ... 27 v DC, electrically isolated |
| **Current consumption:** | max. 70 mA |
| **Nominal temperature:** | 25 °C |
| **Working temperature:** | -20 ... +50 °C |
| **Relative humidity:** | 0 ... 80 % RH (non condensing) |
| **Storage temperature:** | -30 ... +70 °C |
| **Housing:** | |
| **Dimensions:** | 36 x 72 mm (front frame) |
| **Installation depth:** | approx. 75 mm (incl. screw-type/plug-in terminals) |
| **Panel mounting:** | with fixing clamps<br>panel cutout: $32.0^{+0.5}$ x $68.5^{+0.5}$ mm (H x W) |
| **Electric connection:** | via screw-type/plug-in terminals<br>cable cross section: 0.14 ... 1.5 mm². |
| **Scope of supply:** | device, manual |

**Variants:**

**GIR 300-G24**
*Product-ID: 605203*
GIR 300 with electrically isolated supply 22 ... 27 V DC

**Accessories and spare parts:**

**APG-7**
*Product-ID: 606825*
Housing for surface mounting incl. seal GGD4896

**EAK 36**
*Product-ID: 603227*
Unit stickers (black with white text) for 36 different units for lettering of display devices.