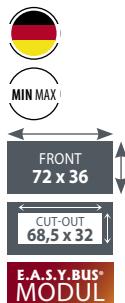


UNIVERSAL DISPLAYING AND CONTROLLING DEVICE



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

GIR 300

Art. no. 604692 (Standard model)

Universal displaying and controlling device

Specifications:

| | |
|---|---|
| Measuring input: | universal input 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, rotational speed: | TTL signal, switching contact |
| Up- / down- counter: | TTL signal, switching contact |
| Serial interface | |
| Measuring rate: | approx. 100 measurements / s (standard signal) or approx. 4 measurements / s (temperature and frequency) |
| Measuring and display range, resolution: | |
| Temperature: | Pt100: -200 ... +850 °C or -50,0 ... +200,0 °C; |
| (unit switchable between °C and °F) | Pt1000: -200 ... +850 °C; Type J: -170 ... +950 °C; Type K: -270 ... +1350 °C; Type N: -270 ... +1300 °C; Type S: -50 ... +1750 °C; Type T: -270 ... +400 °C |
| Standard 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 |
| Up- / down- counter: | The counter reading is stored also in power-down state. 0 ... 9999 (10 million with prescaler), 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) | |
| Normalized signal: | <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 relay 1: normally-open contact 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 ≤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 |
| Voltage supply: | 9 ... 28 V DC (standard) |
| Option: | G24: 9 ... 28 V DC, electrically isolated |

Power consumption: max. 70 mA**Nominal temperature:** 25 °C**Working temperature:** -20 ... +50 °C**Relative humidity:** 0 ... 80 % r.F. (non condensing)**Storage temperature:** -30 ... +70 °C**Panel mounting:** with fixing clamps**Electric connection:** via screw-type/plug-in terminals
cable cross section: 0.14 ... 1.5 mm².**Housing****Dimensions:** 72 x 36 mm (W x H) (front frame)**Mounting depth:** approx. 75 mm (incl. screw-type/plug-in terminals)**Panelcut-out:** 68.5^{±0.5} x 32.0^{±0.5} mm (W x H)**Scope of supply:** Device, manual

Standard variant:

GIR 300-G24

Art. no. 605203

GIR 300 with electrically isolated supply 9 ... 28 V DC

Accessories and spare parts:

APG-7

Art. no. 606825

Housing for surface mounting incl. seal GGD3672