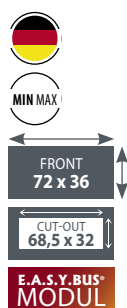


UNIVERSAL DISPLAYING AND CONTROLLING DEVICE



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: (unit switchable between °C and °F)	Pt100: -200 ... +850 °C or -50,0 ... +200,0 °C; 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