

Universal displaying and controlling device

NEW



FRONT
36 x 72

E.A.S.Y.Bus - Modul

FUNCTIONS:



EASY HANDLING

HIGH PRECISION

LOW PRICE

NEW DESIGN!

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 version)

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) approx. 4 measurements / s (temperature and frequency)
Measuring and display range, resolution:	
Temperature: (unit switchable between °C and °F)	Pt100: -200 ... +850 °C bzw. -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)	
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 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
Supply voltage:	9 ... 28 V DC (standard)
Option:	electrically isolated supply
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 panel cutout: 32.0 ^{+0.5} x 68.5 ^{+0.5} mm (H x W)
Electric connection:	via screw-type/plug-in terminals cable cross section: 0.14 ... 1.5 mm ² .
Scope of supply:	device, manual

Variants:

GIR 300-G24

Product-ID 605203

GIR 300 with electrically isolated supply 22 ... 27 V DC