

PLUG ON CONTROLLER/DISPLAY NEEDS NO AUXILIARY ENERGY



MIT LED-ANZEIGE

**GRA 0420-VO**

Art. no. 601022

Plug on controller/display without auxiliary energy, output 4 ... 20 mA, 1 electrically isolated switching output.

**GRA 010-VO**

Art. no. 601024

Plug on controller/display without auxiliary energy, output 0 ... 10 V, 1 +Ub-switching output.

Specifications:	GRA 0420 ...	GRA 010 ...
<b>Input signal:</b>	4 ... 20 mA (2-wire)	0 ... 10 Volt (3-wire)
<b>Voltage load:</b>	<5.5 V	--
<b>Input resistance:</b>	--	approx. 30 kOhm
<b>Supply voltage:</b>	--	12 ... 28 V DC
<b>Supply current:</b>	from current loop	<10 mA
<b>Display:</b>	approx. 7 mm high, 4 digit LED	
<b>Display range:</b>	-1999 ... 9999 digit, first and last value freely adjustable	
<b>Recommended range:</b>	≤2000 digit	
<b>Decimal point:</b>	any position	
<b>Accuracy:</b>	≤0.2 % FS ±1 digit (at nominal temperature = 25 °C)	
<b>Measuring rate:</b>	>50 measurements / s	
<b>Filter:</b>	selectable in 3 stages	
<b>Limit:</b>	3 limit functions selectable:	
<b>LI 0:</b>	Values above/below range permissible	
<b>LI 1:</b>	Values above/below range not permissible	
<b>LI 2:</b>	When range is exceeded, the referring rail will be displayed	
<b>Switching outputs</b>		
<b>GRA0420VO:</b>	1 electrically isolated open collector output, connection via cubic plug	
<b>GRA010VO:</b>	1 +Ub-switching open collector output, connection via cubic plug	
<b>Switching point, switching hysteresis:</b>	freely adjustable	
<b>max. switching voltage:</b>	28 V	
<b>max. switching current:</b>	20 mA (at option ... -S2: 1 A)	
<b>Reaction time:</b>	≤20 ms	
<b>Switching functions:</b>	2 or 3 point controller, 2 point controller with alarm, min-/max-alarm	
<b>Operation:</b>	via 3 keys	
<b>Working temperature:</b>	-25 ... +50 °C	
<b>Relative humidity:</b>	0 ... 80 % RH (non-condensing)	
<b>Electric connection:</b>	special-adaptor design for cubic plug EN 175301-803/A for simple plug-in wherever required. 2 screws (68 and 75 mm) included in scope of supply.	
<b>Protection rating:</b>	IP65 (when mounted appropriately)	
<b>Housing:</b>	ABS, keypad (resp. transparent panel made of polycarbonate)	
<b>Dimensions:</b>	approx. 48.5 x 48.5 x 35.5 mm (W x H x D) without special adapter, approx. 50.5 x 90 x 39.5 mm (W x H x D) with special adapter	
<b>Scope of supply:</b>	Device, 2 screws (68 and 75 mm), manual	

HIGHLIGHTS:

- fast controlling and supervision (reacting time <20 ms)
- min./max. value memory
- 3 limit functions, 3 filter stages
- alarm delay adjustable
- extensive self check and diagnosis system
- freely programmable

**Variants:**

**GRA 0420-VO-S2**

Art. no. 605920

Design type with 2 electrically isolated switching outputs. Outputs with increased switching current (28 V / 1 A), connection via separate M8 jack (Delivery incl. 1 m connecting cable for connection of both switching outputs)

**GRA 0420-VO-OT**

Art. no. 605532

design type without pushbuttons in the cover (device's adjustment is not accessible for users)

**GRA 010-VO-S2**

Art. no. 607650

Design type with 2 electrically isolated switching outputs. Outputs with increased switching current (28 V / 1 A), connection via separate M8 jack (Delivery incl. 1 m connecting cable for connection of both switching outputs)

**GRA 010-VO-OT**

Art. no. 607645

design type without pushbuttons in the cover (device's adjustment is not accessible for users)



**GRA 0420-WK**

Art. no. 604881

Without auxiliary energy, output 4 ... 20 mA, 1 electrically isolated switching output.

**GRA 010-WK**

Art. no. 604882

Output 0 ... 10 V, 1 electrically isolated switching output.

**Specifications:**

same as GRA ... VO, but

- Electric connection:** connection to any standard signal source and switching output via 2 m connection cable.
- Housing:** with mounting holes can be mounted to any surface whatever

HANDHELD INSTRUMENT

DISPLAY / CONTROLLER

LOGGER- / BUS SYSTEMS

TRANSMITTER

TEMPERATURE PROBE

ALARM / PROTECTION, LEVEL