

# Self-supplying plug-in display for 4-20 mA measuring transducer no auxiliary energy source required - device will tap from loop current.

## GIA 0420 VO



## GIA 0420 VOT



**GIA 0420 VO** without buttons

**GIA 0420 VOT** with buttons

**GIA 0420 VOT - ex**



with Ex-protection for all potentially explosive atmospheres

**Ex qualification:** Ex II 2G Ex ia/ib IIC/IIB T4

(Further Information please refer to our Homepage [www.greisinger.de](http://www.greisinger.de))

### Specification:

**Input signal:** 4-20 mA (2-wire) (optionally 0 .. 10 V)  
**Voltage load:** approx. 2 V (at ...-ex: approx. 3.5 V)  
**Accuracy:** ±0.2% FS ±1 digit (at nominal temperature = 25°C)  
**Display:** 10 mm high LCD  
**Display range:** -1999 up to +9999  
**Decimal point:** any position  
**Scale:** freely adjustable via 3 buttons  
 (for "VO": accessible after cover has been removed)

**Measuring rate:** approx. 5 measurements / sec.  
**Filter:** adjustable  
**Limit:** 3 limit functions selectable:  
 LI 0: Values above/below range permissible  
 LI 1: Values above/below range not permissible  
 LI 2: When range is exceeded, the referring rail will be displayed

**Switching outputs:** (only devices with option S1 or S2)

- S1: 1 electrically isolated open collector outputs,  
 - S2: 2 electrically isolated open collector outputs,  
 connection via separate M8 jack

**Switching point, switching hysteresis:** freely adjustable

**max. switching voltage:** 28 V  
**max. switching current:** 1 A (Option S1: 20 mA)

**Reaction time:** ≤ 250 ms

**Min./Max. value memory:** memorizing of max. and min. values.

**Operation, Configuration:** via 3 keys.

**Working conditions:** -25 to +50°C, 0 to 80 % RH (non-condensing)

**Electric connection:** 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.

**Housing:** ABS, keypad (resp. transparent panel made of polycarbonate)  
 approx. 48,5 x 48,5 x 35,5 mm (H x W x D) without special adapter  
 approx. 50,5 x 90 x 39,5 mm (H x W x D) with special adapter  
 Protection rating: IP65 (when mounted appropriately)

- no auxiliary energy source required - device will tap from 4 to 20 mA loop current.
- scale freely adjustable 'on site' within seconds, no auxiliary devices required
- can be turned to any position, fits in any position regardless of transmitter location
- large display range from -1999 to 9999 Digit.
- maximum accuracy and minimum temperature drift
- large, 10 mm high LCD
- plug-in wherever required and device will be ready! The quickest way possible to get an "on site display" for your 4 to 20 mA measuring transducers.
- monitoring for probe damage, probe short circuit, values above/below permissible limit
- steady display even if transmitter signal is disturbed: due to software filters (can be switched on/off)

### Options:

- **S1** with 1 electrically isolated switching output  
 Delivery incl. 1m connecting cable for connection of switching output (**Option S2 just in combination with Ex-device available**)

- **S2** with 2 electrically isolated switching outputs  
 Delivery incl. 1m connecting cable for connection of both switching outputs (**Option S2 not in combination with Ex-device available**)

## GIA 0420 WKT

## GIA 0420 WKT - ex

with Ex-protection for all potentially explosive atmospheres

### Specification:

as GIA 0420 VOT but

**Electric connection:** connection to any standard signal source (4-20 mA) via 2 m connection cable.

Housing with mounting holes can be mounted to any surface.



**Option:** Input signal 0 ... 10 V (3-wire)

Display with power supply (12 ... 28 V) power consumption: < 10 mA