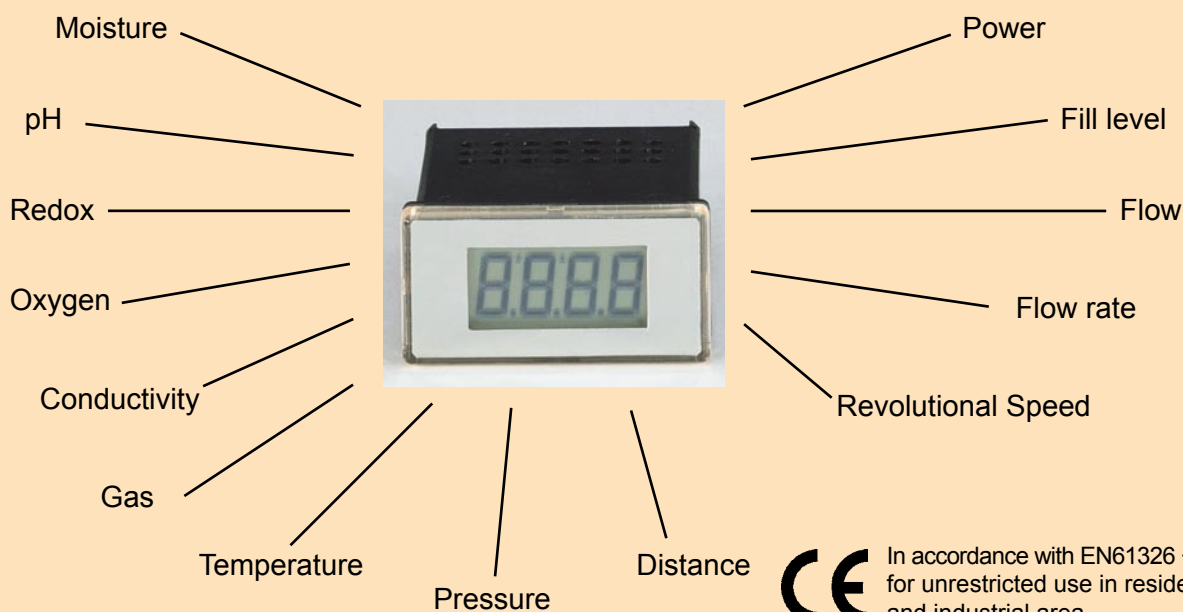


**$\mu$ P-display with freely adjustable scale and without auxiliary energy for all 4 ... 20 mA 2-wire measuring transducers**



# GIA 0420



**CE** In accordance with EN61326 +A1 +A2 for unrestricted use in residential and industrial area

## GIA 0420

Display

## GIA 0420 SP

Display with additional (electrically isolated switching output open collector) - can be configured as MIN-/MAX alarm.

## GIA 0420 Ex

**EX-protection:** II 2 G EEx ib IIC T4 (ZELM 03 ATEX 0135)

- time-saving on-site scaling without any additional auxiliary modules
- simple device identification by means of insertion film.
- optimum operational reliability due to integrated self-diagnosis function and watchdog system.
- large display range from -1999 to +9999 digits
- high accuracy combined with minimum temperature drift due to integrated self-calibration
- large LCD display, approx. 10 mm high
- smallest housing dimensions possible
- very low voltage load at approx. 3 V
- monitoring of probe damage, probe short-circuit, values no longer within measuring range.
- software filter for clear display even in case of encoder signal interference (can be switched on and off)
- simple installation by means of pole-free connection (plus and minus exchangeable)

## Specification:

- Input signal:** 4 ... 20 mA
- Reverse voltage protection:** pole-free connection
- Voltage load:** approx. 3 Volt
- Accuracy:**  $\pm 0.2\%$  FS  $\pm 1$  digit (at nominal temperature = 25°C)
- Temperature drift:** 100 ppm
- Meas. rate:** approx. 3 measurements / sec.
- Filter:** 3 stages, can be switched on and off
- Display:** LCD display, approx. 10 mm high
- Display range:** -1999 to 9999
- Decimal point:** any position selectable
- Scaling:** scale freely adjustable via 3 keys at the back side of the unit
- Limit:** LI 0 Values above/below range permissible  
LI 1 Values above/below range not permissible
- Working temperature:** 0 to 50 °C
- Storage temperature:** -20 to 70 °C
- Electric connection:** 2-pin screw-type/plug-in terminal  
max. terminal range up to 1.5 mm<sup>2</sup>  
(for GIA0420SP): 2 x 2-pin screw-type/plug-in terminal  
max. terminal range up to 1.5 mm<sup>2</sup>
- Housing:** fibre-reinforced Noryl
- Front screen:** polycarbonate
- Dimensions:** 24 x 48 mm (front dimensions)
- Panel cutout:** 21.7<sup>+0.5</sup> x 45<sup>+0.5</sup> mm (H x W)
- Mounting depth:** approx. 65 mm incl. terminal
- Protection rating:** IP54 (IP65 by means of additional optional silicone O-rings, **GGD2448SET**)
- Switching output:** (only for GIA 0420 SP) electrically isolated open collector switching output
- Switching capacity:** 24 V DC 3 mA

### Connection data for GIA0420... Ex:

For connection to certified intrinsically safe current circuits with the following maximum values:

**U<sub>i</sub> = 28 V, I<sub>i</sub> = 100 mA, P<sub>i</sub> = 800 mW**

Effective internal capacity: C<sub>i</sub>  $\leq$  30 nF

Effective internal inductivity: is so small that it can be neglected