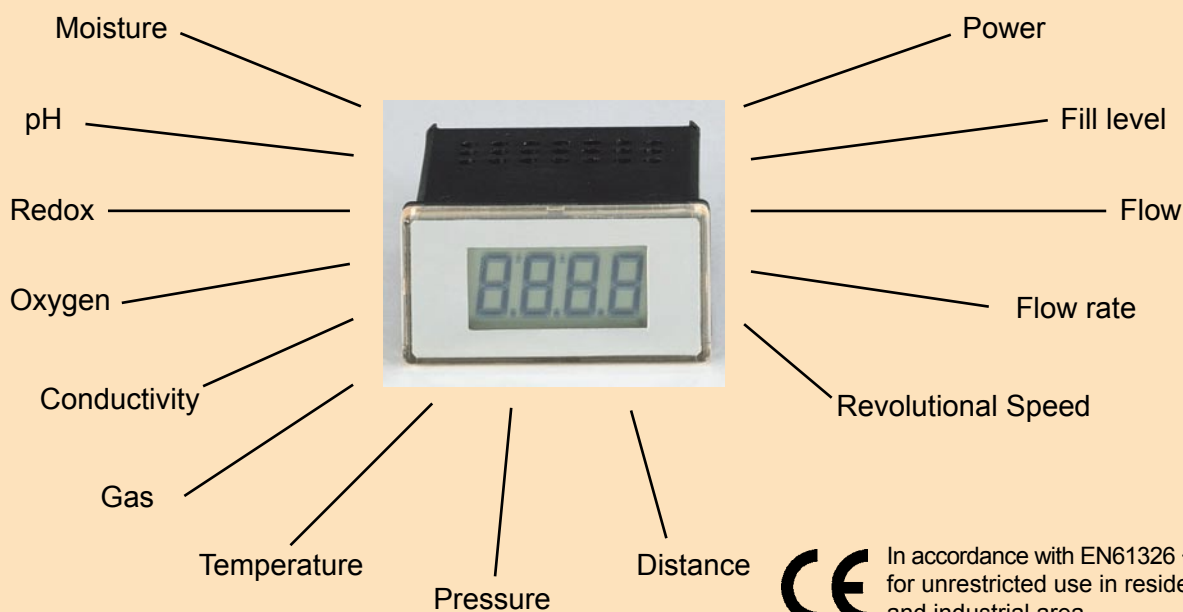


μ P-display with freely adjustable scale and without auxiliary energy for all 4 ... 20 mA 2-wire measuring transducers

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)
- additional monitoring function (GIA 0420 SP)

Specification:

Input signal: 4 ... 20 mA
Reverse voltage protection: pole-free connection
Voltage load: approx. 3 Volt
Accuracy: $\pm 0.2\%$ FS ± 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 mm²
 (for GIA0420SP): 2 x 2-pin screw-type/plug-in terminal
 max. terminal range up to 1.5 mm²
Housing: fibre-reinforced Noryl
Front screen: polycarbonate
Dimensions: 24 x 48 mm (front dimensions)
Panel cutout: 21.7^{+0.5} x 45^{+0.5} 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_i = 28 V, I_i = 100 mA, P_i = 800 mW

Effective internal capacity: C_i \leq 30 nF

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


Housing for surface mounting *for build in of devices with the format 24 x 48 or 48 x 96 mm*

	Ordering type / discription	suitable for	
	APG-1 * Housing for surface mounting incl. seal GGD2448 Dimensions: 80 x 82 x 95 mm (H x W x D) without elbow-plug Panel cutout: for 1 display at the format 24 x 48 Connection resp. cable insert: elbow-plug in according DIN43650, 4-pin	GIA 20 EB	
	APG-2 * Housing for surface mounting incl. seal GGD2448 Dimensions: 80 x 82 x 95 mm (H x W x D) without screw connections Panel cutout: for 1 display at the format 24 x 48 Connection resp. cable insert: 2 x screw connections M12x1.5	GIR 230 ... GIA 0420 GIA 0420 SP GIA 2448 /WE	
	APG-3 * Housing for surface mounting incl. seal GGD2448 Dimensions: 80 x 82 x 95 mm (H x W x D) without screw connections Panel cutout: for 2 displays at the format 24 x 48 Connection resp. cable insert: 2 x screw connections M12x1.5	GTH2448/1,2,3	
	APG-4 * Housing for surface mounting incl. seal GGD4896 Dimensions: 75 x 125 x 127 mm (H x W x D) without screw connections Panel cutout: for 1 display at the format 48 x 96 Connection resp. cable insert: screw connections M12x1.5 and M16x1.5	GIR 1002 ..., GIA 2000, GIR 2000 Pt GIR 2002 GTH 87 EG, GTH 1150 EG	

*** Note: All Housings without installation device and without unit sticker!
The needed installation device resp. unit sticker (see page 41) have to be ordered seperately!**

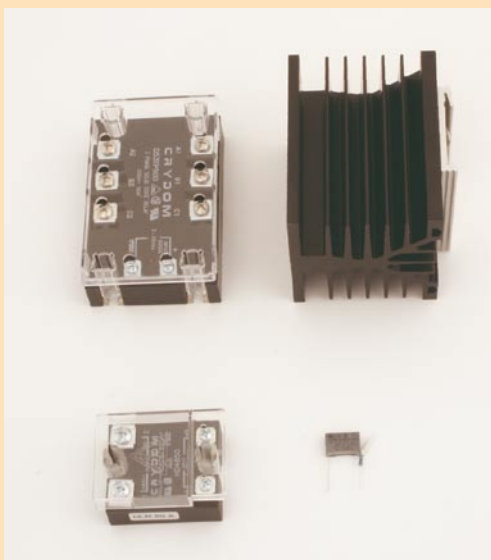
The Installation device will be assembled for free in the housing (on common order) if desired.

Pre-assembled mounting plate *for even easier mounting of the transmitters and devices in 80 x 82 housing*

	MP 8082 mounting plate for 80 x 82 housings <i>The mounting plate will be assembled to the ordered device ex works. The mounting flaps allow direct mounting to the wall without opening the housing.</i>	all devices at 80 x82-housing: e.g. GTMU, GRHU, GHTU, GMUD, GPHU 014 MP, OXY 3610 MP, APG-1	
	Dimensions: 80 x 114 x 6 mm (H x W x D)		

Other design types upon request

Semiconductor Relais



HLR 50A semiconductor relay

incl. suitable touch-guard protection cap

Switching voltage: 48 ... 530 V AC

Switching current: max. 50 A

Control voltage: 3 - 32 V DC

Isolation voltage: 4000V

Operating temperature: -40...+80°C

Dimensions: approx. 59 x 46 x 35 mm

D53 TP50D 3 phase semiconductor relay

incl. suitable touch-guard protection cap

Switching voltage: 48 ... 530 V AC

Switching current: max. 50 A

Control voltage: 3 - 32 V DC

Isolation voltage: 4000V

Operating temperature: -40...+80°C

Dimensions: approx. 100 x 75 x 35 mm

D53-3P Suitable heat sink for D53TP50D

snap-on mounting on hat rail

RC-element 230 VAC for inductive switching loads
(solenoids, relay, motors etc.)