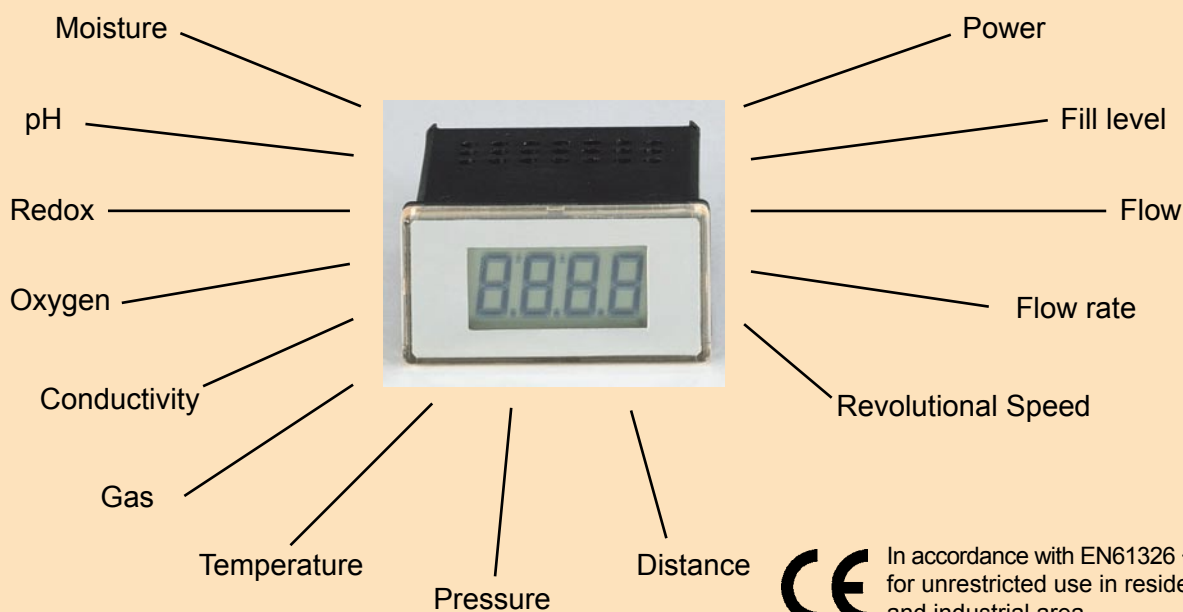


μ P-display with freely adjustable scale and without auxiliary energy for all 4 ... 20 mA 2-wire measuring transducers

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)

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