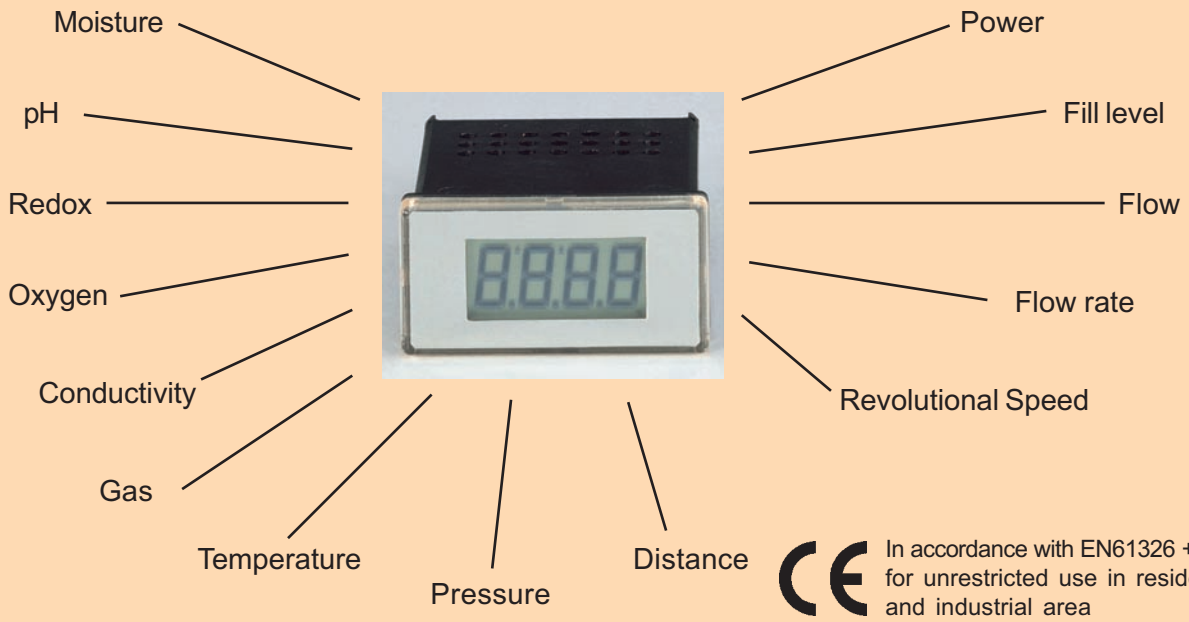
µP-display with freely adjustable scale and without auxiliary energy for all 4 ... 20 mA 2-wire measuring transducers

GIA 0420



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 configurated as MIN-/MAX alarm.

GIA 0420 Ex
Ex-protection: ⟨Ex⟩ 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: ±0.2% FS ±1digit (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:

Ui = 28 V, Ii = 100 mA, Pi = 800 mW

Effective internal capacity: Ci ≤ 30 nF
Effective internal inductivity: is so small that it can be neglected

Self-supplying plug-in display for 4-20mA measuring transducer

no auxiliary energy source required - device will tap from loop current.

GIA 0420 VO

GIA 0420 VO
GIA 0420 VO Ex

Ex-protection: ⟨Ex⟩ II 2 G EEx ib IIC T4 (ZELM 03 ATEX 0135)

Specification:

Input signal:	4-20mA
Polarity:	no polarity needs to be observed for installation
Voltage load:	approx. 3V
Accuracy:	±0.2% FS ±1digit (at nominal temperature = 25°C)
Display:	10mm high LCD
Display range:	-1999 up to +9999
Decimal point:	any position
Scale:	freely adjustable via 3 buttons (accessible after cover has been removed)
Measuring rate:	approx. 3 measurements / sec.
Filter:	can be switched on in 3 stages
Limit:	LI 0: Values above/below range permissible LI 1: Values above/below range not permissible

Electric connection: special-adapter design for cubic plug DIN 43650 for simple plug-in wherever required. 2 screws (68 and 75 mm) included in scope of supply.

Housing: 48.5 x 48.5 x 35.5 (H x W x D)
maximum dimensions by means of special adapter: 50.5 x 90 x 39.5 (H x W x D), housing made of ABS (impact resistant plastic), transparent panel made of polycarbonate, (splash water-proof IP65)

Working temperature: 0 to 50°C

Temperature drift: 100 ppm

Connection data for GIA0420... Ex:
For connection to certified intrinsically safe current circuits with the following maximum values:

Ui = 28 V, Ii = 100 mA, Pi = 800 mW

Effective internal capacity: Ci ≤ 30 nF
Effective internal inductivity: is so small that it can be neglected

- no polarity
- 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 20mA 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)
- voltage load approx. 3 Volt only
- meets even strictest CE requirements. (EN 61326 + A1 +A2)

GIA 0420 WK
GIA 0420 WK Ex

Ex-protection: ⟨Ex⟩ II 2 G EEx ib IIC T4 (ZELM 03 ATEX 0135)

Specification:

as GIA 0420 VO however

Electric connection: connection to any standard signal source (4-20mA) via 2m connection cable. Housing with mounting holes can be mounted to any surface whatsoever.

KONGSGAARDEN INSTRUMENT

LED / LCD - Display type GIA 0420

Dimmension drawing