

µP-display with freely adjustable scale



MOISTURE | PH | REDOX | OXYGEN | CONDUCTIVITY | GAS |
 TEMPERATURE | PRESSURE | DISTANCE |
 REVOLUTIONAL SPEED | FLOW RATE | FLOW |
 FILL LEVEL | POWER |

GIA 0420 N

Display without auxiliary energy, input 4-20 mA

GIA 010 N

Display, input 0-10 V

GIA 0420 N - ex



Display, input 4-20 mA,
 with EX-protection for all potentially explosive atmospheres
 Ex qualification: II 2G Ex ia/ib IIC/IIB T4
 (Further Information please refer to our homepage www.greisinger.de)

GIA 010 N - ex



Display, input 0-10 V,
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General:

- time-saving on-site scaling without any additional auxiliary modules
- simple device identification by means of integrated membrane.
- 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
- smallest housing dimensions possible
- 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)

Ex protection:

II 2 G Ex ia IIC T4

EC type examination: BVS 11 ATEX 1 333 X



Connection data: Umax: 28 V
 Imax: 100 mA
 Pmax: 1.2 W (for GIA 0420 N -ex
 or 0.95 W (for GIA 010 N - ex)

max. effective internal capacitance: Ci = 13 nF (for GIA 0420 ...)
 or 26 nF (for GIA 010 ...)

additionally for the switching output: Ci = 4.5 nF

max. effective internal inductance: negligible small

Please keep in mind for the circuit of the optionally available switching output that the wiring has to be done from the same intrinsically safe circuit as the measuring signal!

Specification:	GIA 0420 N ..	GIA 010 N ..
Input signal:	4 ... 20 mA 2-wire	0 ... 10 V 3-wire
Voltage load:	approx. 3.5 V	-
Input resistance:	-	approx. 100 kOhm
Max. input:	25 mA	15 V
Power supply:	-	12 - 28 V DC
Power consumption:	from current loop	< 10 mA
Display:	LCD display, approx. 10 mm high	
Display range:	-1999 ... +9999	
Decimal point:	any position selectable	
Scaling:	scale freely adjustable via 3 keys at the back side of the unit	
Accuracy:	< 0.2% FS ±1 digit (at 25 °C)	
Temperature drift:	< 100 ppm / K	
Measuring rate:	approx. 5 measurements / s	
Filter:	adjustable: 0.1 ... 2.0; off	
Storage:	min- / max-value memory	
Switching output:	electrically isolated open collector	
Switching capacity:	28V DC / 50 mA	
Working temperature:	-20 ... 50 °C	
Storage temperature:	-20 ... 70 °C	
Electric connection:		
GIA 0420 N ..	2 x 2-pin screw-type/plug-in terminal max. terminal range up to 1.5 mm ²	
GIA 010 N ..	1 x 2-pin., 1 x 3-pin. screw-type/plug-in terminal, max. terminal range up to 1.5 mm ²	
Housing:	fibre-reinforced Noryl	
Front screen:	polycarbonate	
Dimensions:	24 x 48 mm (H x W, 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:	IP 20, with front flush installation IP 54	

Accessories and spare parts:

GGD2448SET

frontal IP65 by means of additional optional silicone O-rings