Plug-in Display
GIA0420-M12 / -VO

GIA0420-M12

GIA0420-VO

- **For all sensors with 4-20mA output and M12 connection or**
- **Flexible scalable display -1999..9999 digits - adjustable for all measuring ranges**
- **Display device adaptable to all installation situations, 340° rotating display, plug rotatable 360° in 8 positions**
- **Monitoring of sensor defect and range violation**
- **No external supply necessary: power supply via current loop!**
- **Voltage drop only 2 V**

Features

4-20 mA sensor systems are very popular thanks to their simplicity and durability - and, not lastly, due to the affordable system costs.

Our GIA 0420-M12 plug-in display can be used for countless 4-20 mA sensors with an M12 connection for detection of pressure, temperature, flow, fill level, pH, etc.

A special feature is the flexibly pivoting display - sensors are frequently installed in inaccessible locations where a standard 90° orientation is of little help.

Technical data

Input signal	:	4..20 mA, (2-wire)
Voltage load	:	approx. 2 V
Supply current	:	from current loop
Accuracy	:	±0.2 % FS ±1 digit (at nominal temperature = 25 °C)
Display	:	10 mm high LCD display
Display range	:	-1999..+9999
CE Conformity		
EMC	:	2014/30/EU
ATEX	:	2014/34/EU

Explosion protection

Type	:	GIA0420VO-EX-00
Zone 1/2	:	II 2G Ex ia IIC T4
Limit values	:	$U_i=28V$; $I_i=100mA$; $P_i=1,2W$ $C_i \leq 13nF$; L_i= negligibly small

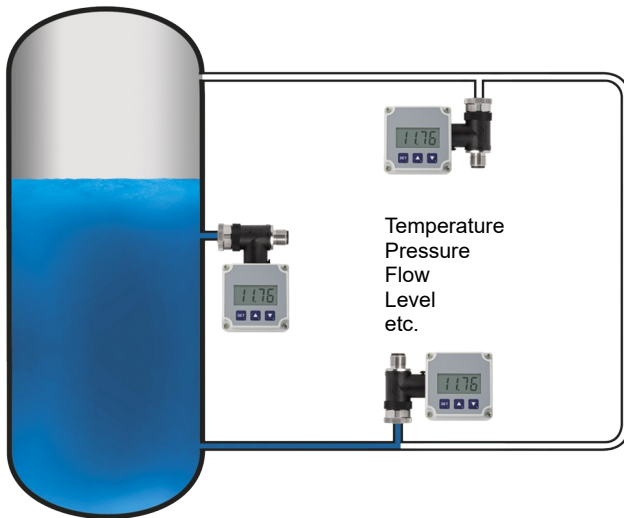|		
Decimal point	:	xxxx; xxx.x; xx.xx; x.xxx
Scaling	:	freely scalable with 3 buttons
Measuring rate	:	approx. 5 measurements / s
Filter	:	adjustable
Limit	:	3 selectable limit functions
		LI 0: Range exceeding/undercutting is permissible
		LI 1: Range exceeding/undercutting is not permissible
		LI 2: Range limit is displayed when range exceeded/undercut.
Operation, configuration	:	with 3 buttons, Standard : concealed rear housing cover Option T : accessible from outside
Operating conditions	:	-25...+50 °C / 0...80 % r.h.(non-condensing)
Electrical connection	:	Special adapter design for - EN175301-803 A connector - M12-A connector, 4-pin Custom terminal assignment as an option. Others on request.
Protection class	:	IP65 (with correct assembly)
Housing	:	ABS, foil keypad, front pane made of polycarbonate
Dimensions (W x H x D)		
without plug connector	:	approx. 48.5 x 48.5 x 35.5 mm
with plug connector	:	approx. 80 x 50.5 x 39.5 mm

Devices can be rotated to various positions:
X: Housing 340°
Y: Plug connector 360° in 8 positions
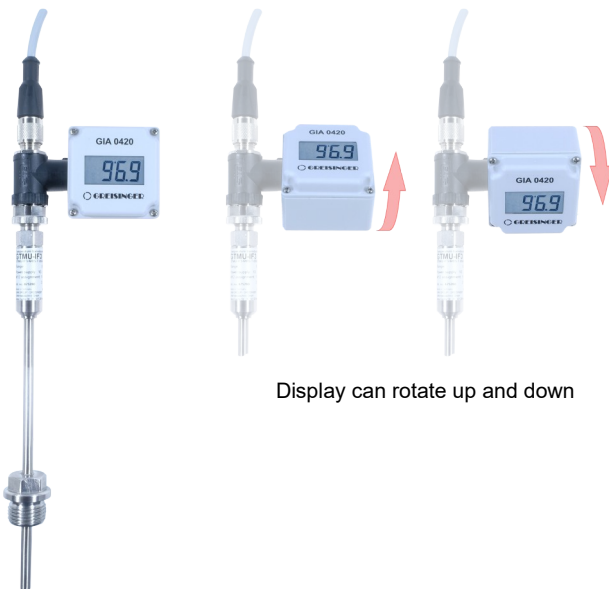Z: Displays 360° (4 positions with screw fitting)

for further information please refer to www.gsg-industrietechnik.com | Phone no.: +49 931 / 30 40 8-0

Assembly examples

Temperature
Pressure
Flow
Level
etc.

Can be installed in a variety of positions

Display can rotate up and down

Ordering code

GIA0420 - [1.] - [2.] - [3.]

1.	Version	
	VO	Adapter for EN175301-803 A connector
	M12	Adapter for M12-A plug, 4-pole connector
3.	**Options**	
	00	No options
	EX	Intrinsically save (VO-type, only)
	WE	Custom configuration
4.	**Connection** (M12-type, only)	
	13	Special adapter design, 1+, 3-
	12	Special adapter design, 1+, 2-
	24	Special adapter design, 2+, 4-