

Product information

Displays

**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	: Ui=28V; Ii=100mA; Pi=1,2W Ci≤13nF; Li= 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

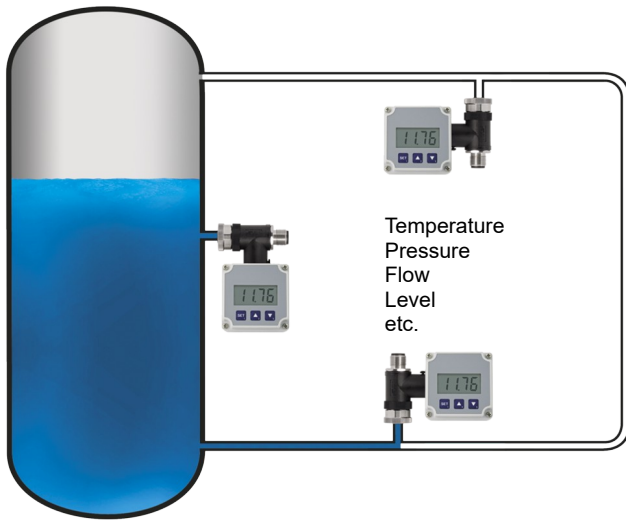
Dimensions (W x H x D)
 without plug connector : approx. 48.5 x 48.5 x 35.5 mm
 with plug connector : approx. 80 x 50.5 x 39.5 mm



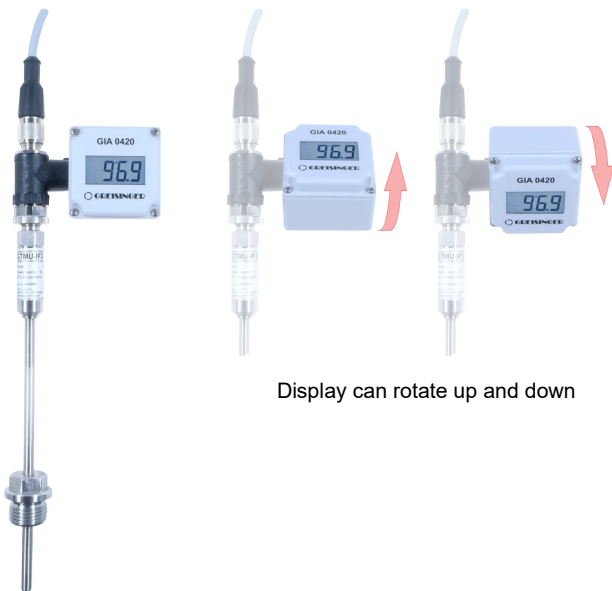
Devices can be rotated to various positions:
 X: Housing 340°
 Y: Plug connector 360° in 8 positions
 Z: Displays 360° (4 positions with screw fitting)

Product information

Assembly examples



Can be installed in a variety of positions



Display can rotate up and down

Ordering code

1. 2. 3.
 GIA0420 - - -

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 safe (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-