

Product information

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

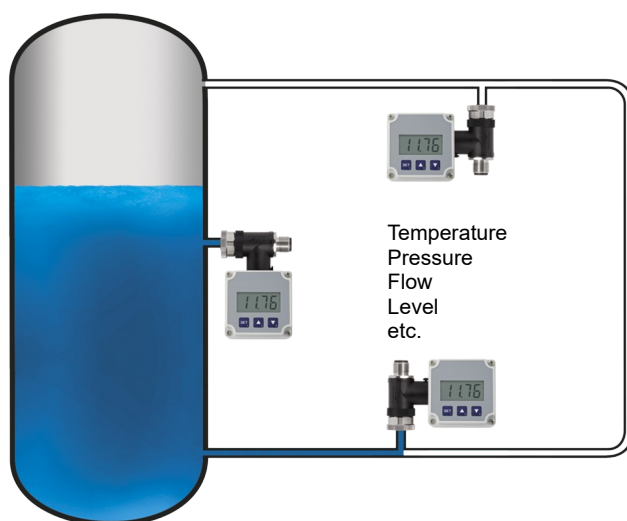
Dimensions (W x H x D)	
without plug connector	: approx. 48.5 x 48.5 x 35.5 mm
with plug connector	: approx. 80 x 50.5 x 39.5 mm



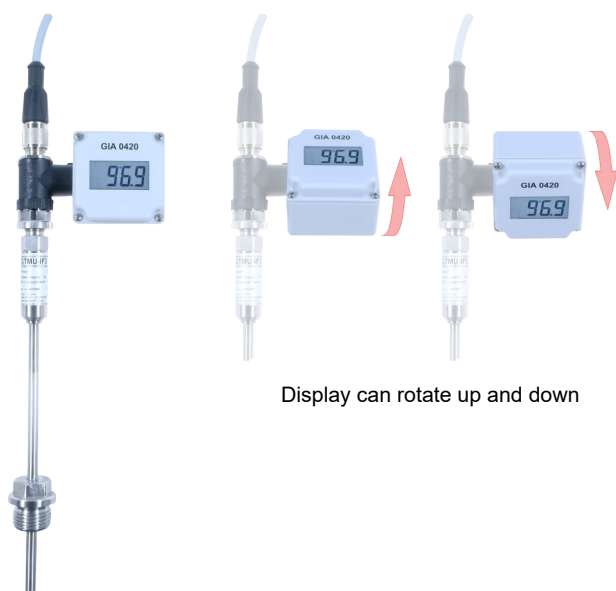
Devices can be rotated to various positions:
X: Housing 340°
Y: Plug connector 360° in 8 positions
Z: Displays 360° (4 positions with screw fitting)

Product information

Assembly examples



Can be installed in a variety of positions

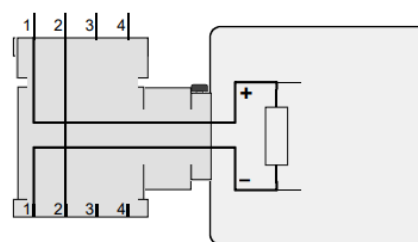


Ordering code

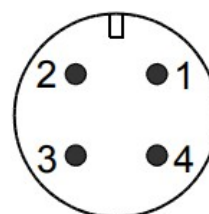
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1. Version	
VO	Adapter for EN175301-803 A connector
M12	Adapter for M12-A plug, 4-pole connector
3. Options	
00	No options
EX	Intrinsically safe (VO-type, only)
WE	Custom configuration
4. Connection (M12-type, only)	
13	Pin assignment, 1(S), 3(UB)
12	Pin assignment, 1(S), 2(UB)
24	Pin assignment, 2(S), 4(UB)
143	Pin assignment, 1(UB), 4(S), 3(0V)

Connection diagram



Connection scheme



M12-male plug