

Digital display - general information**GIA**

The GIA Digital Display fits any 2 - wire transducer/transmitter and needs no additional power supply.

After opening the front cover (4 x screws) 3 buttons will be visible.

Mode Button 1

Allows you to adjust the parameters and you also confirm each alteration with this button.

Buttons 2 and 3

These buttons allow you to change the values or setting parameters.

The different parameters which you can choose with the **Mode Button 1** are as follows:-

dP decimal point

An4 display at 4mA

An20 display at 20mA

LI limit setting

0 = can vary beyond range

1 = cannot vary beyond range.

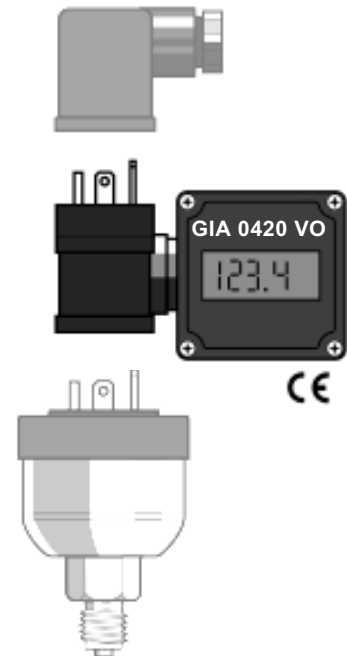
FE1 and FE2 are error messages.

FILt 0 = no filter

1 = filter 1 is active. Use this to protect against surges, which can be experienced through switching. An additional display delay of 0.5 secs is activated.

2 = filter 2 is active. Use this to protect the last digit from jumping in the display. Should be activated at a display range greater than 2000 digits. An additional display delay of 1 sec is activated.

After use of **Button 1** to confirm selection, a further press will return to the normal display of actual measurements.



Technical Data			
Input signal	4 - 20 mA , 2 x wire	Switch mechanism	Isolated open collector
Supply	Uses the sensors supply	Working temperature	0 - 50degC
Display	10mm high LCD	Protection	IP54 (VO: IP65)
Range	1999 to 9999.	Current take up	0.1mA
Decimal point	User adjustable	Output load	50mA max
Precision	+/- 0.2% + 1 digit	Connection	Din plug(DIN 41650)
Measurement rate	3 (VO:5) per second	Casing material	PA66µ. Macrolon
Polarity protected	Yes	Short circuit protection	Yes

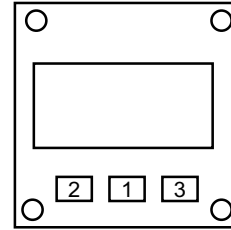
PRESSURE-VACUUM-LEVEL LTD

Unit 9, Lexden Lodge Industrial Estate, Jarvis Brook,
Crowborough, East Sussex, TN6 2EG U.K.

Tel: +44(0)1892 66 44 99 Fax: +44(0)1892 66 36 90

Web: www.pvl.co.uk Email: info@pvl.co.uk



Digital display - instructions**GIA****Configuration**

1. Press button 1, the display will show “dP” (decimal point) Use buttons 2 and 3 to choose the preferred decimal point position. Confirm the decimal point position with button 1. The display should return to dP.
2. Press button 1 again, the display should read “An 4” (Display at 4mA). Use buttons 2 and 3 to set the display value which is required by the GIA 0420 VO as a start signal for 4mA. Confirm the display value with button 1. The display should then read “An 4”.

Note

Scroll function: Buttons 2 and 3 come with a scroll function. If the button is pressed briefly, the display value will rise or fall by 1 digit. If the button is pressed longer (more than 1 sec.) then the value will begin to scroll up or down and the speed of scrolling will increase after 6 secs.

3. Repeated pressing of button 1 will switch to the next parameter. The display will read “An20” (display at 20mA). Use buttons 2 and 3 to set the display value which the GIA 0420 VO requires as a start signal for 20mA. Confirm the display value with button 1. The display should return to read “An20”.
4. Press button 1 again. The display will read “L1” (limit). Choose the preferred measurement limits with buttons 2 and 3. 0 = respective range. It is permissible not to reach required range. (FE1, FE2 come with hardware limits) 1 = respective range. It is NOT permissible not to reach required range.(required range must be reached) (FE1, FE2 come with range limits).
Confirm choice with button 1. The display should return to read “L1”. Usual basic setting for pressure measurement is “L10” and for relative humidity, pH and similar measurements use”L11”.
5. Press button 1 again. The display should read “FILt” (filter).
Choose the required starting filter setting with buttons 1 and 2 - settings are 0, 1, 2 or 3.
0 = no filter
1 = filter 1 active
2 = filter 2 active
3 = filter 1 and filter 2 active

Filter 1: filters short interference peaks, such as those which occur when switching relays and (contacts?). Filter 1 must be used if controls or sensors with significant load are switched close to the GIA 0420 or large interference peaks are likely. Additional display time lag: approx. 0.5 sec.

Filter 2: prevents the “jumps” often visible on the last digit in digital displays. Always use Filter 2 where display spans are larger than 2000 digits. Additional display time lag: approx. 1 sec.

Confirm your choice with button 1. The display should again read “FILt”.

This completes the adjustment of the GIA 0420 VO to the transmitter.

By pressing button 1 you can switch the GIA 0420 VO to immediately display the current measurement.

PRESSURE-VACUUM-LEVEL LTD

Unit 9, Lexden Lodge Industrial Estate, Jarvis Brook,
Crowborough, East Sussex, TN6 2EG U.K.

Tel: +44(0)1892 66 44 99 Fax: +44(0)1892 66 36 90

Web: www.pvl.co.uk Email: info@pvl.co.uk

