



Range 0,25 ÷ 6 m / 0,4 ÷ 10 m

IP67

Suitable for liquids and solids

MODBUS

Power supply 24 Vdc; 12 Vdc

Output 4 ÷ 20 mA (2 wire version);

4 ÷ 20 mA + 2 relays set (4 wire version)

ATEX

Remote control via Smartphone

The METER ultrasonic level transmitters have 3 modes for configuration and calibration:

1) by means of the configuration module VL601 which can be switched on and off on the METER (VL601 module is equipped with large LCD matrix display).

2) via MODBUS RTU by PC interface with USB/RS485 and communication software 010F105A

3) via smartphone Android App (only 4 wires version).

The non-contact technology makes it ideal for installations where it is necessary to minimize the maintenance costs. The removable display module allows its use as a fixed display or calibration module. Are available versions with 2-wire or 4-wire, 2-wire with communication HART and ATEX certification, 4-wire with communication MODBUS and 2 relays.

Technical Features

Housing/sensor material

PC or Al / PP wetted part (only PVDF for ATEX certified vers.)

Mechanical installation

2" GAS M (PP flange DN80 opt.)

Protection degree

IP67/IP68 (Sensor)

Electrical connection

Internal push connectors

Working temperature

-30 ÷ +70°C; +80°C non-continuous

Pressure

from 0,5 to 1,5 bar (absolute)

Power supply

12Vdc / 20÷30Vdc (2-wires versions) -

24Vdc (4-wires versions)

Power consumption

0,6W (2-wires) - 1,5W (4-wires)

Analog output

4...20mA, max 750ohm

Relays output

(4-wire only) n°2 3A 230Vac (n.o.)

Digital communication

MODBUS RTU for 4-wire vers. ; (opt.)

HART for 2-wire vers.

Max measure range

max 0.25 ÷ 6m

max 0.40 ÷ 10m

In case of non perfectly reflecting surfaces, the maximum distance value will be reduced

Blind distance

0,25m (6m versions) / 0,40m (10m versions)

Temperature compensation

digital from -30 to 80°C

Accuracy

±0,2% (of the measured distance)

not better than ±3mm.

Resolution

1mm.

Calibration

4 buttons or via HART / MODBUS RTU

/ BLUETOOTH

Warm-up

5 minutes typical

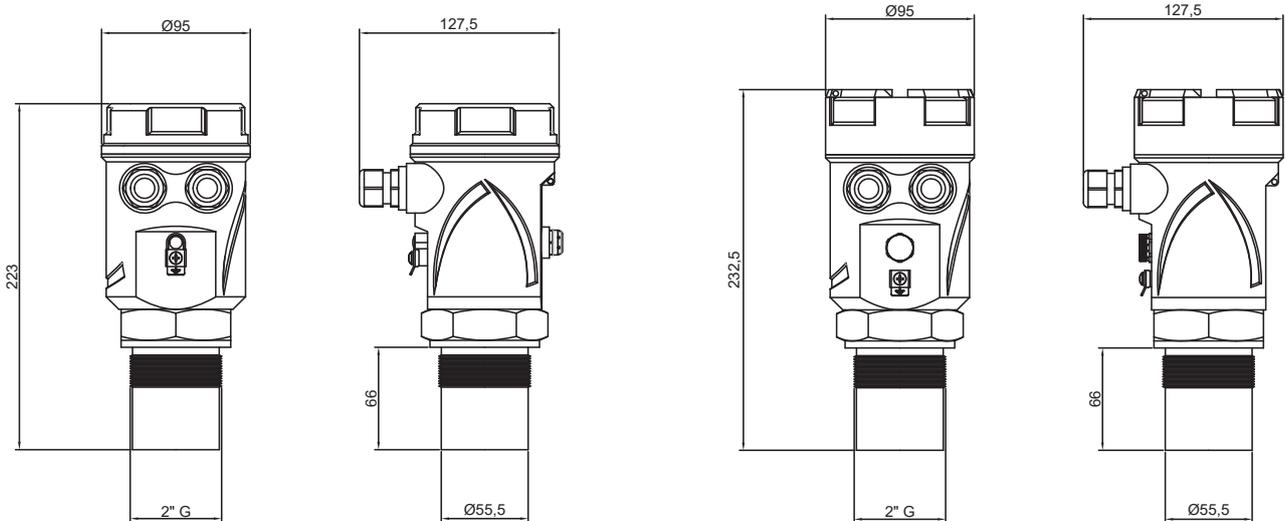
LCD Display

Plug-in display/keyboard 4 buttons matrix LCD

Ex-proof

ATEX II 1/2G Ex ia/db IIC T4 Ga/Gb ;

II 1D Ex ta IIIC T135°C Da Tamb: -20 +60°C



Standard Version

ATEX Version

METER

Ultrasonic level transmitter

4+20mA output. Housing with osmotic filter
G 2" threaded connection + nr. 1 2" BSP/PP fixing bolt (only for PP versions)
Setting by keyboard/display removable module (opt.)
or via BLUETOOTH with Android APP (opt.)
Working temperature: -30° + 70°C (80° non continuous)

| Version | |
|----------------------------|--|
| - | 2-wire, range 6m, HART, ATEX II 1/2G Ex ia/db IIC T4 Ga/Gb ; II 1D Ex ta IIIC T135°C Da Tamb: -20 +60°C |
| 0 | 2-wire, range 10m, HART, ATEX II 1/2G Ex ia/db IIC T4 Ga/Gb ; II 1D Ex ta IIIC T135°C Da Tamb: -20 +60°C |
| 1 | 2-wire, range 6m |
| 2 | 2-wire, range 6m, HART |
| 3 | 2-wire, range 6m, ATEX II 1/2G Ex ia/db IIC T4 Ga/Gb ; II 1D Ex ta IIIC T135°C Da Tamb: -20 +60°C |
| 4 | 4-wire, range 6m, 2 relays, MODBUS |
| 5 | 2-wire, range 10m |
| 6 | 2-wire, range 10m, ATEX II 1/2G Ex ia/db IIC T4 Ga/Gb ; II 1D Ex ta IIIC T135°C Da Tamb: -20 +60°C |
| 7 | 2-wire, range 10m, HART |
| 8 | 4-wire, range 10m, 2 relays, MODBUS |
| 9 | Special |
| Housing / Sensor materials | |
| F | PC with transparent cap IP67 / PP |
| L | PC with blind cap IP67 / PP |
| P | PC with transparent cap IP67 / PVDF |
| R | PC with blind cap IP67 / PVDF |
| S | Aluminum with transparent cap IP67 / PP |
| U | Aluminum with transparent cap IP67 / PVDF (for ATEX versions) |
| V | Aluminum with transparent cap IP67 / PVDF |
| Z | Special |
| Power supply | |
| 4 | 24Vdc (20+30Vdc) |
| 5 | 12Vdc (max 20Vdc) - only for version 1 and 5 (max range 3m), 4 and /8 (max range 5m) |
| 9 | Special |
| Accessories | |
| A | None |
| B | BLUETOOTH - only for 4-wire versions (vers. 4 and 8) |
| C | DN80 PN6 UNI 1092-1/PP flange (600J001T) |
| D | VL601 keyboard/display removable module (VL601SGM) |
| P | PP sensor extension for a total insertion of 250 mm (not available for PVDF sensors) |
| S | MODBUS communication software (010F105A) |
| Z | Special |