



METER Ultrasonic level transmitter

Range 0,25 ÷ 6 m / 0,4 ÷ 10 m

IP67

Suitable for liquids and solids

MODBUS

Power supply 20÷30Vdc; 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

-20 ÷ +60°C

Pressure

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

Power supply

12Vdc / 20÷30Vdc

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

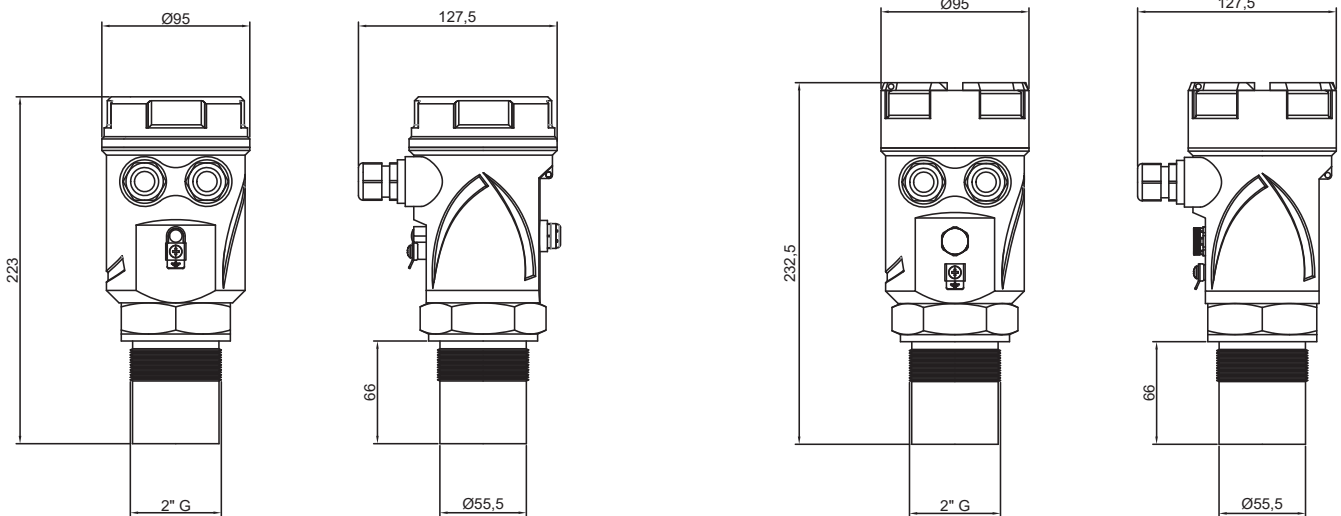
5 minutes typical

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: -20° ÷ +60°C

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 4-wire versions)
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