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

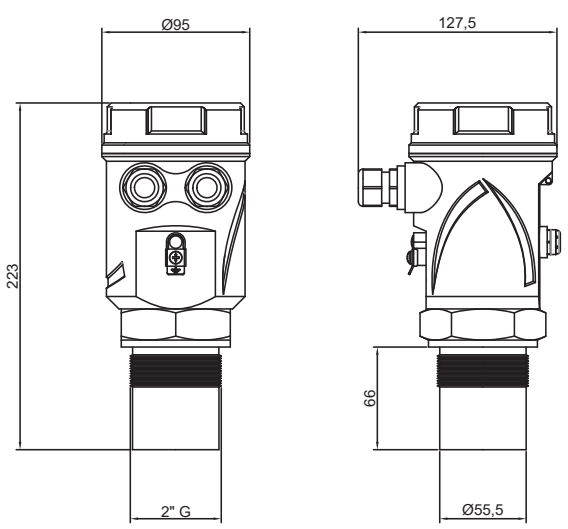
The METER ultrasonic level transmitters have 3 modes for configuration and calibration:
1) by means of the configuration module VL601 which can be switched on and off on the METER (VL601 module is equipped with large LCD matrix display).
2) via MODBUS RTU by PC interface with USB/RS485 and communication 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

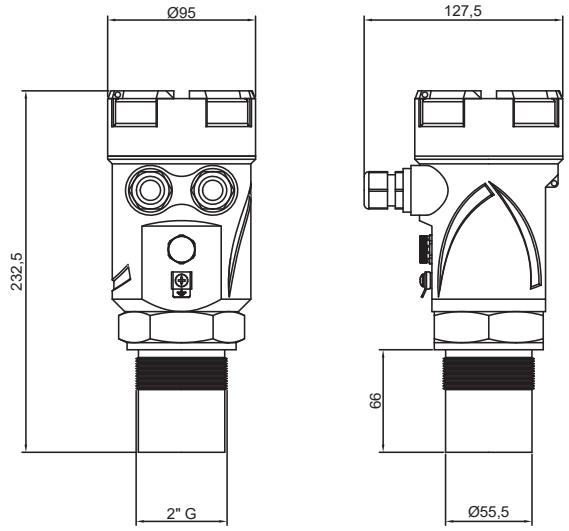
Housing/sensor material
PC or Al / PP wetted part (only PVDF for ATEX certified vers.)
Mechanical installation
2” GAS M (PP flange DN80 opt.)
Protection degree
IP67/IP68 (Sensor)
Electrical connection
Internal push connectors
Working temperature
-20 ÷ +60°C
Pressure
from 0,5 to 1,5 bar (absolute)
Power 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	11÷14Vdc - only for version 1 and 4 (max range 3m), 5 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