



RPL75 Radar level transmitter

Level measurement without contact for liquids

Measurement range:

20m, 4-wire version

12m, 2-wire version

Radar pulses 80Ghz

Visualization and configuration on a removable display module

Output 4 ÷ 20mA; 2 configurable relays

Remote control via Smartphone

Compact unit with removable programming display, a module for level measurement of liquids. Available in 2/4-wire version, with 2 programmable relays on different intervention thresholds and Modbus RTU serial communication. Connection to the 2 "G threaded process made of PP (moplen) for compatibility with chemically aggressive environments. The measuring range is between 0.5 and 20 meters and is guaranteed only in the case of conductive liquids. The polycarbonate housing is equipped with a transparent cover for an immediate reading of the values.

Technical Feature

Frequency range

80Ghz

Housing / sensor material

PC / PP

Mechanical installation

Threaded 2 "G; flange in PP optional

IP rating

IP67

Electrical connection

Terminals

Working temperature

-20° ÷ +60°C

Process pressure

max 3 bar

Supply

20÷30Vdc; 12Vdc (4 wires only)

Consumption

5W peak, 2.5W average (4 wires)

Outputs

4 to 20mA

2 relays 3A 230Vac n.a. resistive

(4 wires only)

Digital communication

MODBUS RTU (4 wires only)

Maximum measuring range

4 wires: 20 m (on conductive liquids)

2 wires: 12 m (on conductive liquids)

Blind distance

min 0,05m (suggested 0,1m)

Accuracy

measurement deviation ± 5mm

(if distance <250mm ± 10mm)

Resolution of digital measurement

2mm.

Calibration

through VL601 module;

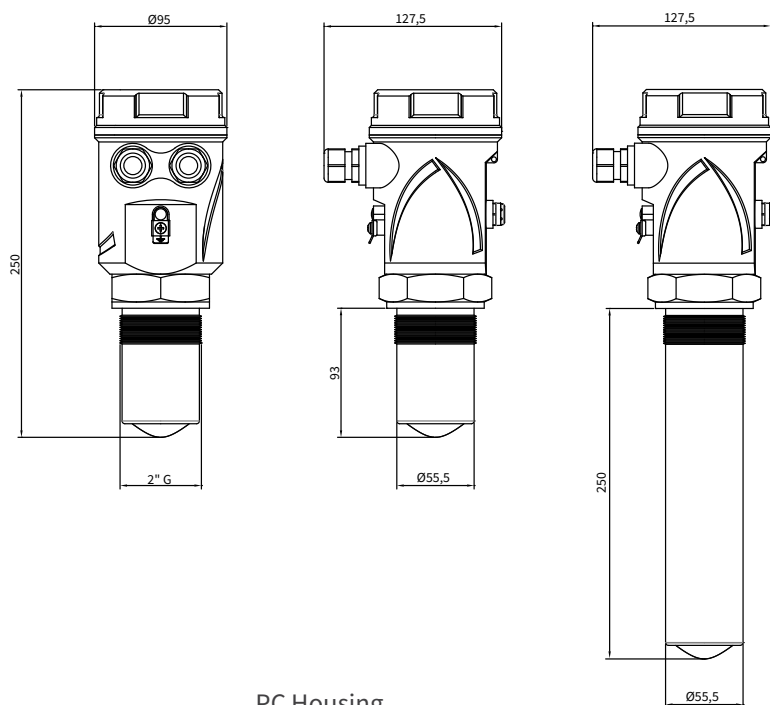
Modbus or Bluetooth (4 wires only)

Thermal stabilization

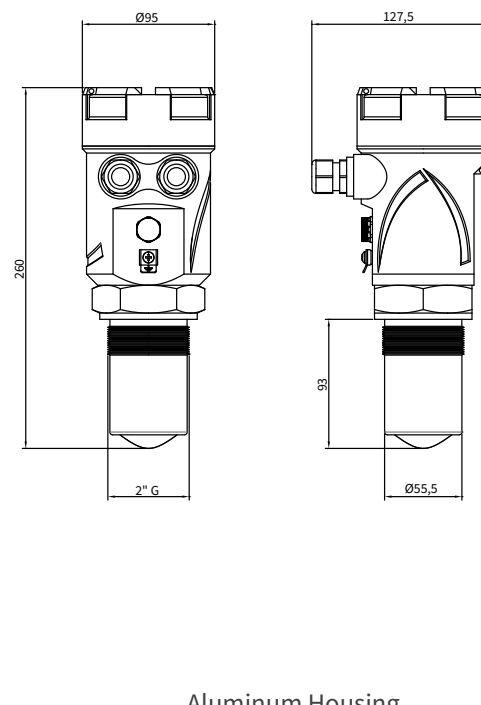
1 minute typical

Visualization

VL601 extractable programming module (opt.) With 4 keys and matrix LCD



PC Housing



Aluminum Housing

RPL75

Radar level transmitter

Micro-waves FMCW - For liquids

Max. distance 12m (2-wire version) 20m (4-wire version)

4÷20mA output

G 2" / PP threaded connection + fixing bolt

Setting by keyboard/display removable module (opt.)

via MODBUS (4-wire) or via BLUETOOTH (opt. 4-wire) with Android APP

IP67 housing with osmotic filter

Working temperature: -20° ÷ +60°C

Version	
5	2-wire, range 12m
8	4-wire, range 20m, 2 relays, MODBUS
9	Special
Housing / Sensor materials	
F	PC with transparent cap / PP
L	PC with blind cap / PP
S	Aluminum with transparent cap / PP
Z	Special
Power supply	
4	20÷30Vdc
5	12Vdc (only 4-wire version)
9	Special
Accessories	
A	None
B	BLUETOOTH (only 4-wire version>)
C	DN80 PN6 UNI 1092-1/ PP flange (600J001T)
D	Display/programming module VL601 (VL601SGM)
P	PP sensor extension for a total insertion of 250 mm
S	MODBUS communication software (010F105A)
Z	Special