

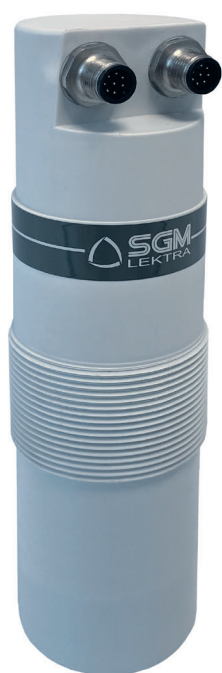
# RPL81

radar level transmitter

Compact unit for level measurement of liquids and solids RPL81 is unaffected by temperature fluctuations, high pressure and condensation.

Thanks to his precise signal focusing it provides a reliable and accurate measurement. RPL81 can be easily configured by: on-board push buttons (IP67 version only); VL620/621, "display/programming module"; MODBUS RTU s/w; BLUETOOTH + SGM Level APP.

4-20mA and MODBUS outputs enable the continuous transmission of the measurement to analogical and digital acquisition systems. Two configurable relays can be used as local alarm threshold and pumps drive/control. One relay can be programmed as operating alarm, making RPL81 suitable for unattended applications. Constructed entirely in PP, RPL81 is particularly indicated in presence of corrosive media (acid vapors) and therefore in storage tanks. Typical applications include water lifting and treatment plants as well as sea and rivers level monitoring.



- Level measurement without contact for liquids and solids
- For liquids (max 20m) and solids (max 10m)
- Radar pulses 80GHz
- IP67/IP68 (Sensor) - IP68 opt.
- 4÷20mA output
- 2 configurable relays
- Remote control via Smartphone

## TECHNICAL FEATURES

### Housing / sensor material

PP

### Mechanical installation

Threaded 2" G; flange in PP optional

### IP rating

IP67 - IP68 opt.

### Electrical connection

Terminal blocks or waterproof connector

IP68 (opt.)

### Working temperature

-30° ÷ +60°C

### Pressure

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

### Power supply

24Vdc

### Power consumption

5W max; 2,5W average

### Analog output

4...20mA, max 750ohm

### Relays output

n°2 3A 230Vac (n.a.)

### Digital communication

MODBUS RTU

### Max measure range

0.05 ÷ 20mt

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

### Blind distance

0,05m

### Accuracy

±0,5% (of the measured distance) not better than ±3mm.

### Resolution

2mm.

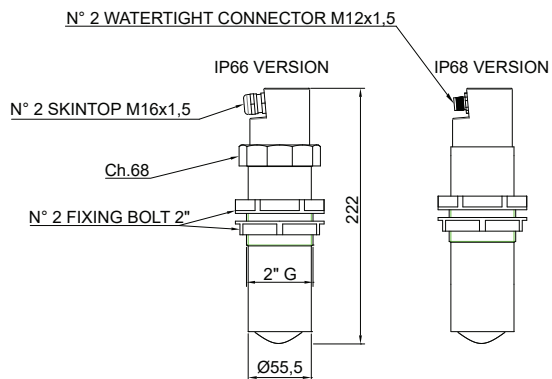
### Calibration

vers. IP67 display opt. - 2 buttons - modbus /

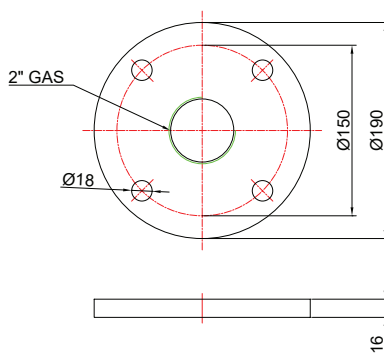
vers. IP68 display - modbus

### Display

VL620/1 module (opt.) with 4 keys and LCD



DN80 PN6 UNI 1092-1 flange in PP (Opt.)



**RPL81**

Radar level transmitter

Micro-waves FMCW  
 For liquids (max 20m) and solids (max 10m)  
 Output: 4+20mA + RS485 MODBUS  
 2 relays for alarms or pump control  
 G 2\"/>

Version	
1	IP67
2	IP68
Housing material	
B	Polypropylene (PP)
Z	Special
Power supply	
4	24Vdc
5	12Vdc
Accessories	
A	None
B	BLUETOOTH
C	DN80 PN6 UNI 1092-1 flange in PP (600J001T)
D	VL620 keyboard/display programming module with 1,8 m cable
E	Mounting bracket in PP (835B026Z)
F	VL621 keyboard/display programming module with 1,8 m cable for versions 2 (IP68)
S	S/W for MODBUS communication (010F105A)
T	Couple of 5m cables with IP68 female connector (for versions 2)
U	Couple of 10m cables with IP68 female connector (for versions 2)
V	Couple of 15m cables with IP68 female connector (for versions 2)
W	Couple of 20m cables with IP68 female connector (for versions 2)
Z	Special