



## PTU50 Ultrasonic level transmitter

Range 0.05 ÷ 1 m

Blind zone 5 cm

IP67|68

Suitable for measuring of liquids

MODBUS RTU/BLUETOOTH comm. protocol

Power supply 24 Vdc

Output: 4 ÷ 20 mA analogue output

Non-intrusive level measurement systems are the preferred technology for many applications and for this reason SGM-LEKTRA developed the level/distance transmitters PTU50. These units are compact with a unique simplicity of commissioning. Calibration and transmitter configuration is possible, even remotely, thanks to a MODBUS RTU connection together with the related software for the PC, or via VLW90M / VLW60T display unit. The IP68 transmitter protection allows installation in underground wells.

### Technical Features

#### Housing material

PP

#### Mechanical installation

1" GAS M - PP flange DN100 opt.

#### Protection degree

IP67|68

#### Electrical connection

IP67 male connector with  
5/10/15/20m linking cable

#### Working temperature

-20 ÷ +60°C

#### Pressure

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

#### Power supply

20÷30Vdc

#### Power consumption

1.5W

#### Analog output

4÷20mA max 750ohm

#### Digital communication

MODBUS RTU

#### Range

0.05÷1m

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

#### Temperature compensation

digital in the working temperature

#### Accuracy

±0,2% (of the measured distance) not better than ±3mm

#### Resolution

1mm

#### Calibration

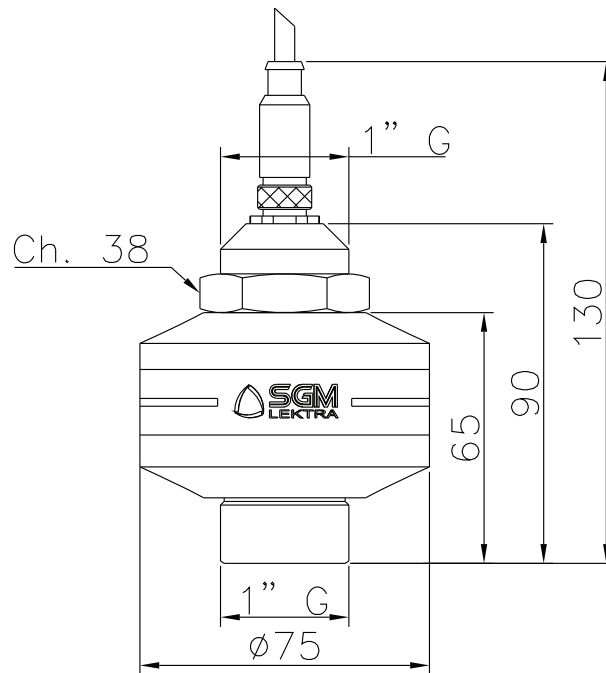
VLW90M / VLW60T prog. module or by MODBUS

#### Warm-up

30 minutes

#### Display

LCD display on VLW90M; VLW60T; VLW602 (opt.)



**PTU50**

**Level transmitter**

Ultrasonic for measurement in liquids and muds  
 Range: 0,05 + 1m; IP67 / IP68 proof  
 Housing in polypropylene (PP)  
 Calibration by VLW60T / VLW90M units or via MODBUS  
 Power supply 20+30Vdc - Output 4+20mA + MODBUS  
 Temperature range -20 + +60°C

Version	
<b>E</b>	With SS316 male connector / IP67
<b>L</b>	With 10m integrated cable / IP68
<b>P</b>	With plastic (PA) male connector (with M accessory) / IP67
<b>Z</b>	Special
Process connection / Sensor material	
<b>0</b>	G 1" / PP + n. 1 1" BSP / PP fixing bolt
<b>1</b>	DN100 PN6 UNI 1092-1 flange / PP
<b>9</b>	Special
Accessories	
<b>A</b>	None
<b>F</b>	MODBUS PC communication S/W (010F105A)
<b>H</b>	Extension for PTU5x L=250mm in PP + DN100 flange
<b>J</b>	Junction box in PC 6 way IP65 (490B074C)
<b>L</b>	Adjustable extension for PTU5x in PP + DN100 flange (Lmin= 85mm Lmax=690mm)
<b>M</b>	IP67 female connector in plastic (PA) with 5m cable - for P version
<b>N</b>	Junction box / IP68
<b>R</b>	100mm extension
<b>T</b>	IP67 female connector in SS316 with 5m cable
<b>U</b>	IP67 female connector in SS316 with 10m cable
<b>V</b>	IP67 female connector in SS316 with 15m cable
<b>W</b>	IP67 female connector in SS316 with 20m cable
<b>Y</b>	Cable for Junction box - price per meter
<b>Z</b>	Special