

PTU05

Compact ultrasonic level transmitter

Technical Data

Enclosure material:	PP
Mechanical installation:	1" BSP
	on request with PP DN100 flange screwed
Mechanical protection:	IP68
Electrical connection:	n.1 output cables (L=3m)
Working temperature:	-25 a +75°C
Pressure:	from 0,5 to 1,5bar (absolute)
Power supply:	24Vdc
Power consumption:	1W
Serial port:	RS485
Max measure range:	5m
[The above distance must be intended from perfect reflecting surfaces]	
Blocking distance:	0.3m
Temperature compensation:	PT100 from -30 to +80°C
Accuracy:	+/- 1% not better than +/-2mm
Resolution:	1mm
Calibration:	by SWING unit
Warm-up:	30 minutes normally
LEDs display:	red LED for supply yellow LED flashing for echo receiving

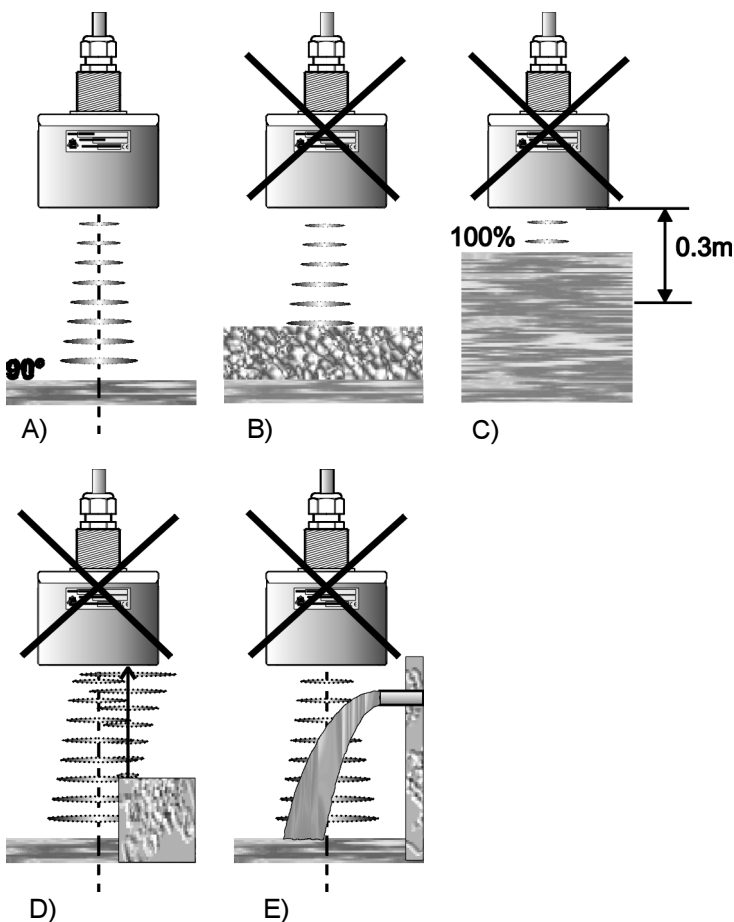
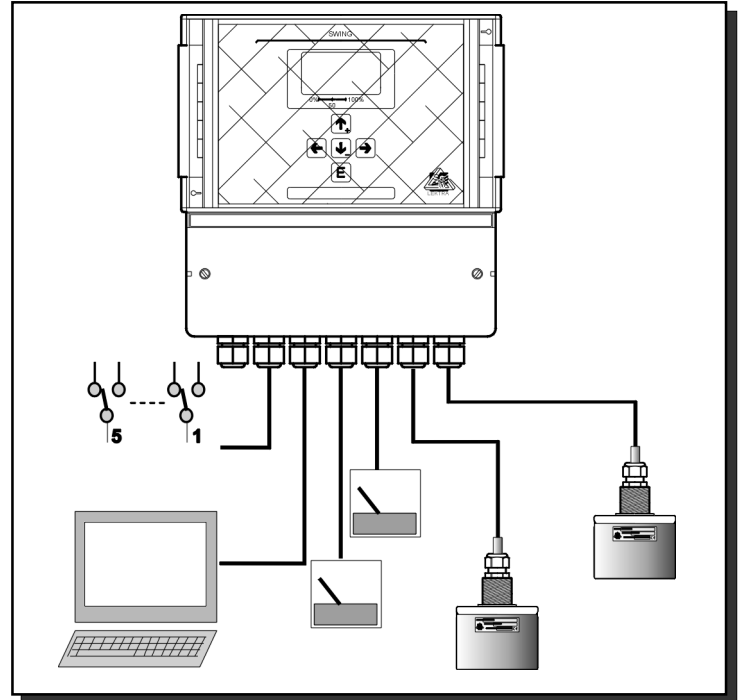


fig.2

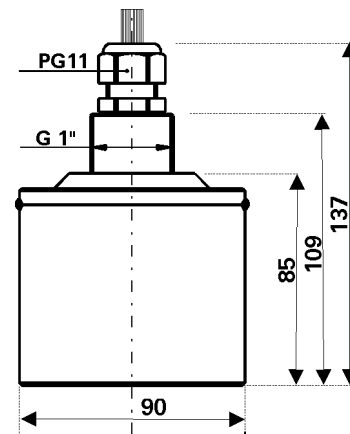


fig.1

PTU05 Mechanical installation

Important close to the sensor there is a "blind zone" of 0,3m where the equipment can't measure.

To reach a good and safe measurement, avoiding spurious echo (not reflected from the surface to measure) need to take care about the sensor sensibility volume in the sound path, no obstacles or objects must be present into the sensibility volume (lobe), see fig.2/D/E.

On fig.2 some suggestion:

- 1) Install perpendicular at the surface, see fig.2/A
- 2) Don't use with foaming products, see fig.2/B
- 3) Avoid installation where the product distance could be less than 0,3m, see fig.2/C
- 4) No obstacles or objects must be present into the sensibility volume, see fig.2/D/E



LEKTRA

applied solutions for the application

PTU05 Calibration

The PTU05 calibration parameters was runed directly by the SWING unit. For a better calibration accuracy is better to wait 30 minutes, for the termic stabilization, before of the calibration by SWING unit

PTU05 Warranty

The warranty expires when damages they have provoked from the use not quite or from not correct installations. The warranty is valid for a period of 12 months from the sell behind presentation of this manual. All the reparations in warranty will have realized in our workshop in Rodano (MI), the costs of dismuonting and reinstalling of the device and the costs of the transport will be paid by the customer.

PTU05 Factory test certificate

In conformity to the company and ceck procedure I certify that the equipment:

PTU05 Serial n.

is conform to the technical requirements on Technical Data and it is made in conformity to the SGM-LEKTRA procedure Quality Control Manager

.....
Production and ceck date
.....



The SGM-LEKTRA, reserves the right to make improvements in the product described in this manual at any time without notice



SGM-LEKTRA
via Papa Giovanni XXIII, 49
20090 Rodano (Milano)
tel. ++39 0295328257 r.a.
telefax ++39 02295328321
e-mail: info@sgm-lektra.com
web: www.sgm-lektra.com

PTU05 Electrical Connections

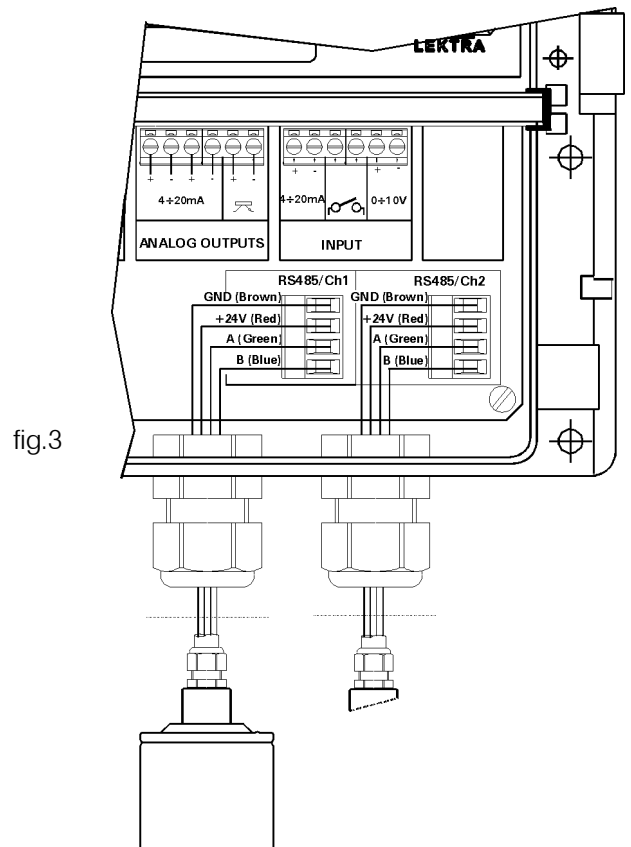
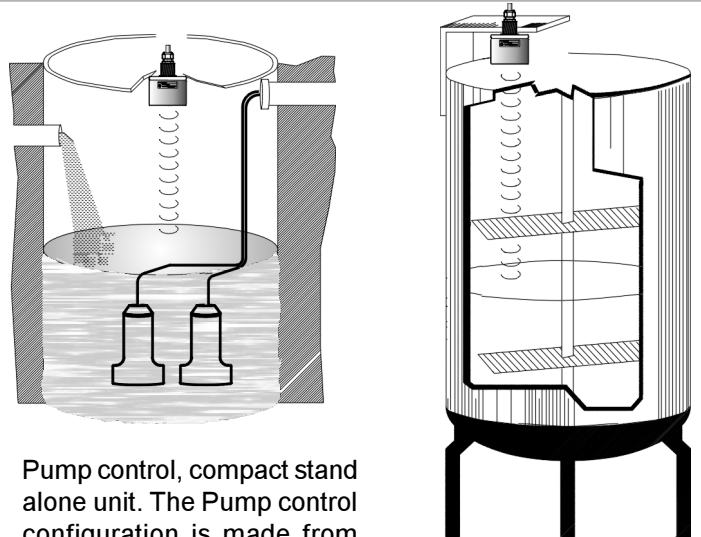


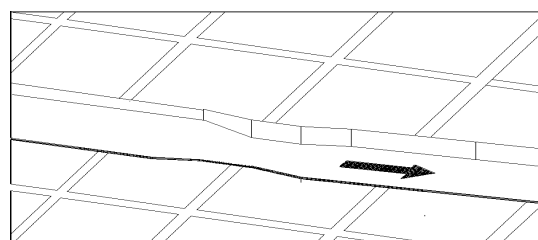
fig.3

PTU05 Application



Pump control, compact stand alone unit. The Pump control configuration is made from SWING unit.

Non contact continuous level measurement into tanks with agitator



Measurement in vessels and channels