

SWING

865B042E

Level, differential level, open channel flow, and pumps controll

Characteristics

- Level measure
- Differential level measure
- Open channel flow measure with flow totalizer
- Up to 5 pumps rotation or fixed controllers
- N.2 RS485 serial input for the PTU or SMART ultrasonic sensor family connection
- Ultrasonic measure sensor coupled:
 - PTU05 (0,3÷5m IP68)
 - PTU10 (0,4÷8m IP68)
 - PTU15 (0,7÷12m IP68)
 - SmartCost (0,25÷5m IP66/68)
 - 521Smart (0,6÷10m IP66)
 - 522Smart (0,7÷15m IP66)
- N.1 4÷20mA or 0÷10V analog input for a level or distance transmitter signal
- N.2 4÷20mA analog output
- N.5 relays output (5A 250Vac)
- The rear illuminated alphanumeric display can be showed 2 different measure
- Transparent frontal for the reading display
- Data input by 5 keys
- Easy access to the keys thanks the rapid closing door
- IP66 ABS enclosure for external installation
- Wall mounted enclosure
- Power supply: 24/115/230Vac 50Hz
- Power consumption: 15W
- Working temperature: -20°C ÷ +60°C
- CE conformity: 93/68 CEE



- ☐ **Level and open channel flow measurements**
- ☐ **Pumps controller**
- ☐ **Wall mounted**
- ☐ **IP66 mechanical protection**
- ☐ **Power supply: 24Vac, 115Vac, 230Vac**
- ☐ **Output: 5 relays outputs**
Dual 4÷20mA analogs outputs

☐ **Presentation**

The not intrusive system application is by now privileged in the level measure sector. For this reason the SGM LEKTRA has developed the its ultrasonic level sensor line, PTU and SMART family, together with a data elaboration unit like the SWING. The SWING unit has a multiplicity of programmable functions and of base parameters already inserted for permit a simplicity of start.

All the SGM-LEKTRA ultrasonic level sensors are coupling to the SWING, in particular way the PTU family.

☐ **Operation**

The ultrasonic level sensor, connected to the SWING unit, send a sonorous impulse toward the product surface of which needs to measure the level. The sonorous impulse comes reflex toward the sensor, that interceptes the return. The sensor inside system now is able to elaborate the sonorous impulse fligth time, and it can extrapolate the product surface distance from the sensor, then sending this last datum to the SWING unit. The SWING unit now is able to elaborate all the internal measura parameters, and it's going to show the results on its display.



applied solution for the application

SWING

Programming structure

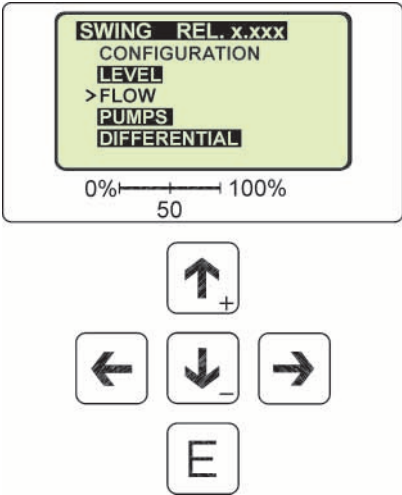
Swing has three different access levels:

- MENU
- GROUPS
- PARAMETERS

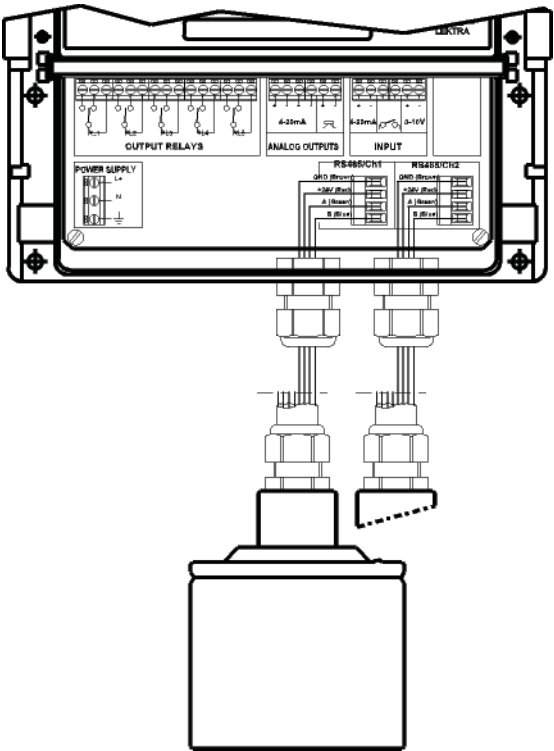
Each MENU include different GROUPS, each GROUP has a few PARAMETERS.

5 keys allow the control and the configuration/programming of all the SWING operative functions.

4 keys can move the cursor into the parameters map. Jump from one to another MENU, or nestled from MENU to GROUP and to the relevant parameters. [E] key, is used for data confirmation.

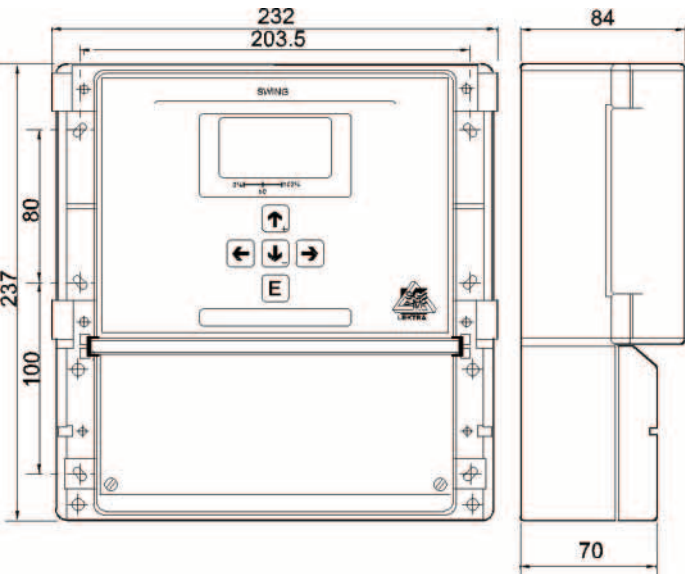


Electrical connections



Dual channel PTU electrical connections

Overall dimensions(in mm.)



Order code

SWING	Code	Version
	2	For connection up to 2 PTU/SMART family sensors
	3	For very low-power consumption self-switch-off 1 sensor connectable
	9	Special
	Code	Relay
	A	None
	C	5 Relays with change over contact (SPDT)
	Code	Power supply
	0	115Vac 50*60Hz
	1	230Vac 50*60Hz
	2	24Vac 50*60Hz
	4	24Vdc
	Code	Output
	A	None
	B	n.1 4*20mA
	C	n.2 4*20mA
	Code	Field Bus
	0	None
	1	RS485 (SWING "Pump Control" not available in this version)
	9	Special

SWING

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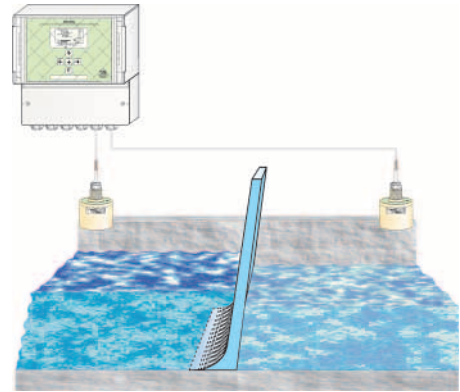
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Esempio di codifica per ordine

Applications

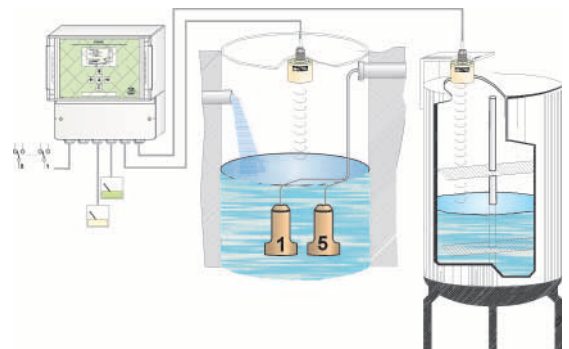
Screen rakes

It's possible to run a differential level measurement when SWING unit is connected with two level measurement.



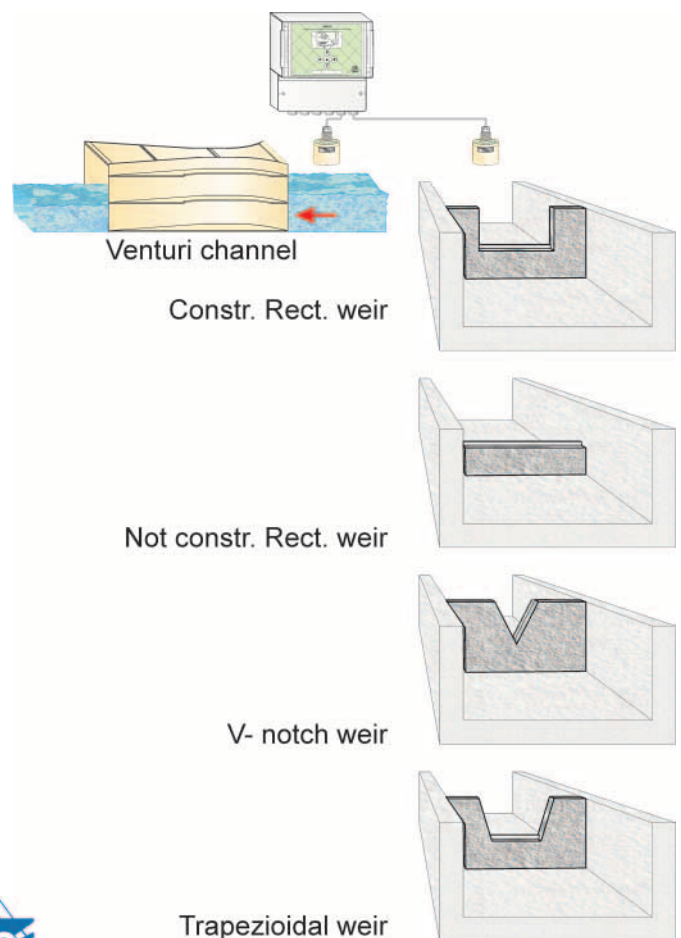
Pumps controll and level measurement

The SWING unit can run two different applications, like a pumps controll and a level measurement, because the two input channel are separately runed.



Flow measurement

Swing unit is indicated for open channel flow measurement with PTU ultrasonics sensor.



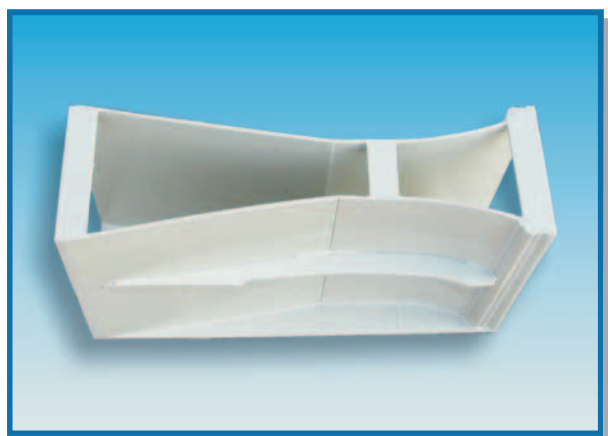
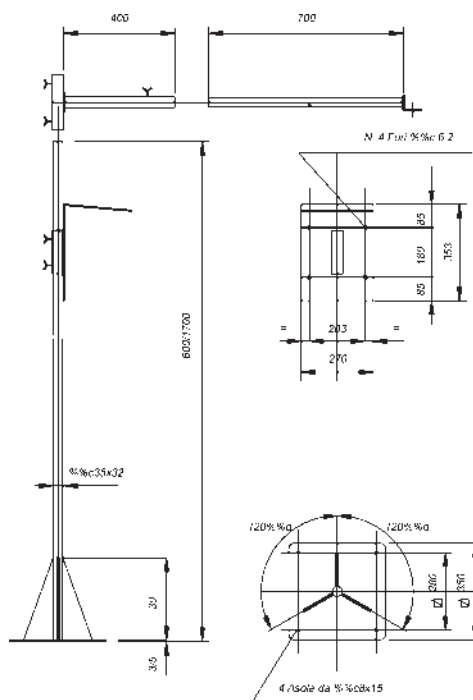
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Accessories



Fixing-Bracket with ground fixing plate

Vessel/channel lateral telescopic fixing-bracket with ground fixing plate and swing sun protector plate. Open channel flow measurement applications suitable accessories.



Pre-fabricated Venturi channel

The SGM-LEKTRA produces a PP Venturi open flumes series.

Model	Qmin	Qmax	Modello	Qmin	Qmax
BS150	1m ³ /h 0,28l/s	50m ³ /h 13,8l/s	BS500	20m ³ /h 5,5l/s	500m ³ /h 138,8l/s
BS200	2m ³ /h 0,55l/s	55m ³ /h 17,27l/s	BS600	25m ³ /h 7,15l/s	850m ³ /h 236l/s
BS300	3m ³ /h 0,83l/s	150m ³ /h 41,6l/s	BS800	50m ³ /h 13,9l/s	1400m ³ /h 389l/s
BS400	10m ³ /h 2,7l/s	310m ³ /h 86,1l/s	BS1000	60m ³ /h 16,6l/s	2250m ³ /h 625l/s



ISO 9001:2000
KEMA
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