VLW601

IP67 display and configuration unit

Features

- Matched with the PTU51, PTU56,
 METER (4-wire ver.) and FLOWMETER sensor
- Connection cable Max. length between the VLW601 and the matched sensor is 20m
- · Epoxy coated aluminum housing
- Display measurements and configurations across a 128x64 LCD display
- Mechanical protection: IP67
- Menu navigation and transmitter configuration by 4 push buttons
- 24Vdc, 24/115/230Vac VLW601 power supply to be specified when ordering
- Transmitter power supply: 24Vdc
- Max. power consumption 1,5W
- Working temperature -25°C ÷ +70°C





- Connecting to PTU51, PTU56, METER (4-wire vers.) and FLOWMETER ultrasonic transmitters
- IP67 mechanical protection
- Epoxy coated aluminum housing
- 24Vdc, 24/115/230Vac VLW601 power supply
- ☐ The VLW601 powers the connected transmitter (24Vdc max.1,5W) and retransmits the 4÷20mA analog signal

General

Suitable for applications where the level/flow transmitter is installed in a difficult to reach location. **VLW601** is a good solution for the matched compact level/flow transmitters remote viewing and configuration: **PTU51**, **PTU56**, **METER4x4x** or **METER8x4x** (**4-wire vers.**), **FLOWMETER**.



☐Configuration and calibration

The **VLW601** module allows you to power and configure all the compatible transmitters (**PTU51**, **PTU56**, ecc.) without the use of other devices.

The module **VLW601** can be installed outdoors near the transmitter installation area, this is made possible by the **VLW601** small size and the **IP67** mechanical protection. The unit **VLW601** ensures the galvanic separation between the power line and the 4÷20mA signal, in the AC power supply case (24/115/230Vac)

The **VLW601** module has a 128x64 matrix LCD. Is possible to view the measure with:

- 1 value (big characters)

4321 mm

- 2 values (small characters)

DISTANCE
4321 mm

OUTPUT
12.5 ma

The programming module **VLW601** has 4 buttons (Fig.12) that allows for all transmitter control and programming operational functions:

- From "RUN" mode: press ok to enter "PROGRAM" mode, press bk to quit
- Press to move the cursor on the parameter you want to use and confirm with **OK**
- To edit numbers, press to modify the digit shown in negative, press to edit the next digit, press to confirm and store the number.

Press **BK** to quit

In "PROGRAM" mode, to facilitate orientation in the programming menu, on display top right there is always a number, eg. "1", this number is the menu or parameter index that's displayed

Configuration access
 Options confirmation

- Parameters values confirmation

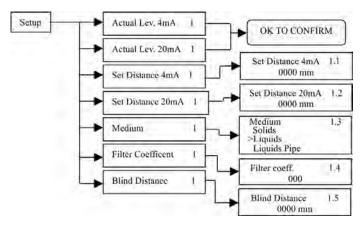
- Parameters values selection - Parameters scroll

Parameters values modification

BK - Exit configuration - Back to previous menu



The operating manual allows an easy and fast start-up through the keyboard. Beside here, can see a **PTU51/PTU56** SETUP menu structure small selection example.





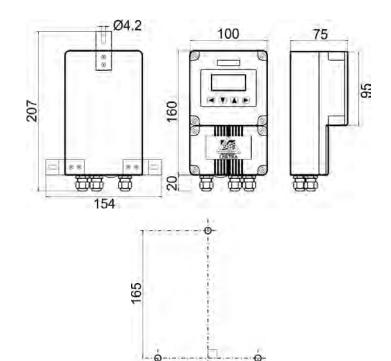
Mechanical dimensions

☐ Drawing Dimensions

Dimensions in mm

☐ Drilling plan

Dimensions in mm



☐VLW601 connections and configurations

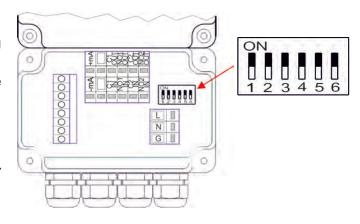
The **VLW601** has a six positions dip-switch for setting the electrical connection to the transmitter.

It is important to do the configuration before making the electrical connection.

There are 3/4 PG9 glands for cable entry.

Electrical connections is via plug-in

The connection to METER, FLOWMETER, RPL and RWL is made through MC601 module (option B of VLW601 accessories).



65

130

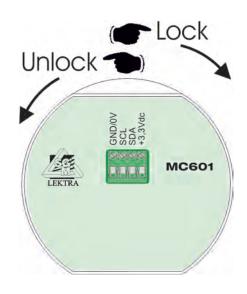
■ MC601 connection module

MC601 is inserted in place of **VL601** programmig module. Unscrew the transparent cap an turn the display clockwise to mount it, or anticlockwise to remove it, as indicated in the right figure.

The electrical connections is via screw terminals.

It is possible to use the same cable to connect the MC601 signals, the 4÷20mA analogic signal and 24Vdc transmitter power supply.

For 2-wire connection use 6x0,25mm² shielded cable and for 4-wire connection use 8x0,25mm² shielded cable

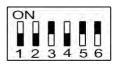




☐PTU51 e PTU56

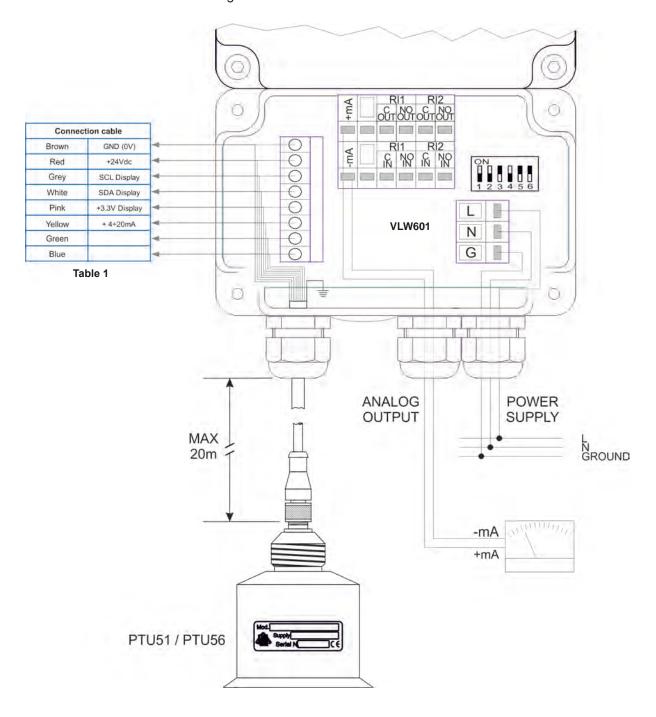
For PTU51 and PTU56 connection set up the dip-switch as indicated below:

PTU51 PTU56	S 1	S2	S 3	S 4	S 5	S6
	ON	ON	OFF	ON	OFF	OFF



Here the wiring diagram for PTU51 and PTU56.

In table 1 is indicated the color matching of the cable with the IP68 or IP69K connector.



□4-wire METER and FLOWMETER

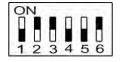
The 4-wire METER transmitters matched to VLW601 have the following product code:

- METER4x4x: range 5m, 24Vdc power supply
- METER8x4x: range 8m, HART, 24Vdc power supply

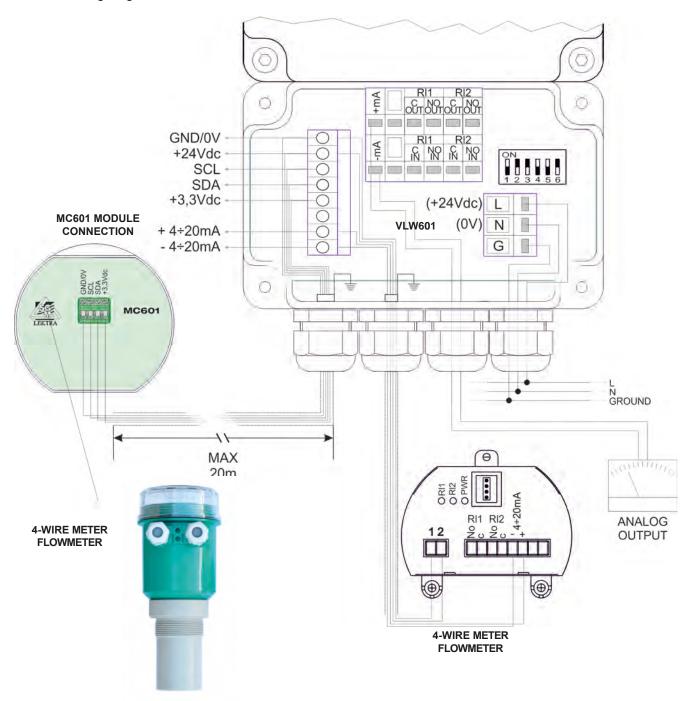
(\mathbf{x} indicates a code option wich is not relevant; es.: METER4 $\mathbf{F}4\mathbf{H}$, where \mathbf{F} is the IP67 PC housing, and \mathbf{H} is 2" fixing bolt optional accessory)

Set up the dip-switch as indicated below:

METER	S1	S2	S 3	S4	S 5	S6
	ON	OFF	OFF	ON	ON	OFF



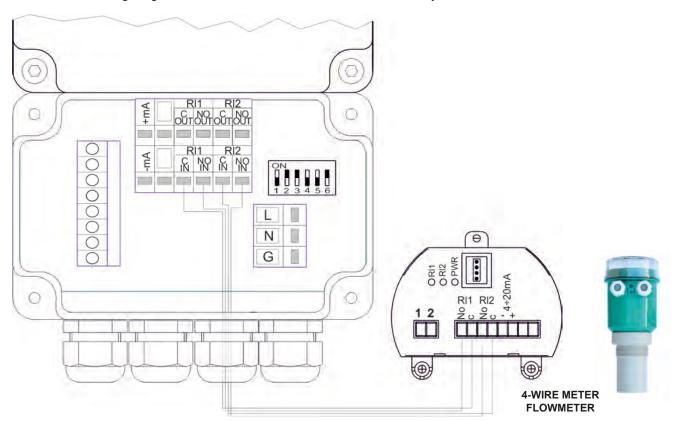
Here the wiring diagram for 2-wire METER and FLOWMETER





■ METER and FLOWMETER relay connection

Here the wiring diagram for 4-wire METER and FLOWMETER relays



Order code

VLW601	Code	Version		
	Α	Standard	dard	
	z	Special		
		Code	Power s	upply
		0	24Vac 50÷60Hz	
		1	115Vac 50÷60HZ	
		2	230Vac 50÷60Hz	
		4	24Vdc	
		9	Speciale	
			Code	Accessory
			А	None
			В	MC601 module connection
			z	Special
VLW601	А	2	A	

Order coding Example



Warranty

Products supplied by SGM LEKTRA are guaranteed for a period of 12 (twelve) months from delivery date according to the conditions specified in our sale conditions document.

SGM LEKTRA can choose to repair or replace the Product.

If the Product is repaired it will maintain the original term of guarantee, whereas if the Product is replaced it will have 12 (twelve) months of guarantee.

The warranty will be null if the Client modifies, repair or uses the Products for other purposes than the normal conditions foreseen by instructions or Contract.

In no circumstances shall SGM LEKTRA be liable for direct, indirect or consequential or other loss or damage whether caused by negligence on the part of the company or its employees or otherwise howsoever arising out of defective goods

Factory Test Certificate
In conformity to the company and check procedures I certify that the equipment:
VLW601 Production and check date:
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: