

# RIL390-91-96

Ultrasonic level transmitter

825B124C

## Technical Data

Housing material: **PP**  
Mechanical installation: **1" GAS M; (PP flange DN100 opt.)**  
Protection degree: **IP68**  
Electrical connection: **IP68 male connector  
with 5/10/15/20m linking cable**  
Working temperature: **-25° ÷ +75°C**  
Pressure: **da 0,5 a 1,5 bar (absolute)**  
Power supply: **24Vdc**  
Power consumption: **1,5W**  
Analog output: **4÷20mA max 750ohm**  
Digital communication: **MODBUS RTU**  
Max measure range: **RIL390 0.05÷1.5m; RIL391  
0.3÷6m;**

**RIL396 0,  
5÷12m**

[In case of non perfectly reflecting surfaces, the maximum  
Accuracy: **digital in the working temperature  
not better than ±3mm (RIL390 ±1mm  
)1mm**  
Resolution:  
Calibration: **VLW601 prog. module with 4 buttons  
or by MODBUS RTU30 minutes**  
Warm-up: **typical**  
LCD Display: **matrix LCD display on VLW601 module (opt.)**



# RIL39x - Safety / Mechanical installation

The non intrusive system application is now preferred in the level measurements field. For this reason the **RIELS** developed the **RIL390**, **RIL391** and **RIL396** unity to best meet the “ **GENERAL-PURPOSE**” application requests. The **RIL390**, **RIL391** and **RIL396** units are compact sensors and have a via connector quick connection. The **IP68** protection makes them suitable for external applications with direct exposure to the weather, including areas with diving hazard (up to 1m). **RIL390**, **RIL391** and **RIL396** are ultrasonic level transmitter, temperature-compensated and suitable for connection with **MODBUS RTU**.

- Non-contact level measurements**
- Suitable for liquids and granulates level measurement**
- Integrated digital temperature sensor to compensate the measure**
- MODBUS RTU communication protocol**
- 24Vdc power supply**
- Mechanical protection: IP68**
- 1 4÷20mA analog output**

## 1. SAFETY

### 1.1 Installation precaution

- a) Installation shall only be performed by qualified personnel and in accordance with local governing regulations.
- b) Make sure that the working temperature is between -35° and +75°C
- c) Install the transmitter in a its physical characteristics and housing/sensor construction materials compatible environment.
- d) The transmitter must be used safety warnings observance.
- e) Improper transmitter use would cause serious damage to people, to the product and connected equipment.

## 2. INSTALLATION

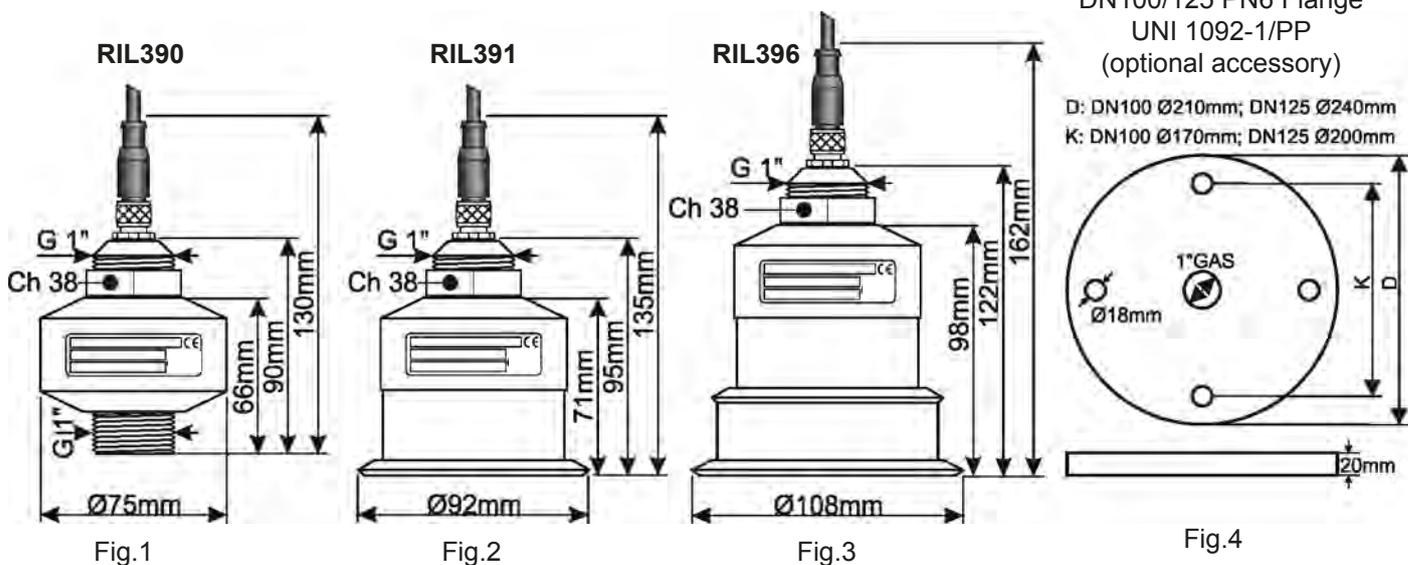
### 2.1 Mechanical dimensions

The **RIL390**, **RIL391** and **RIL396** transmitter have the 1" GAS M threaded, equipped with 1" PP fixing bolt.

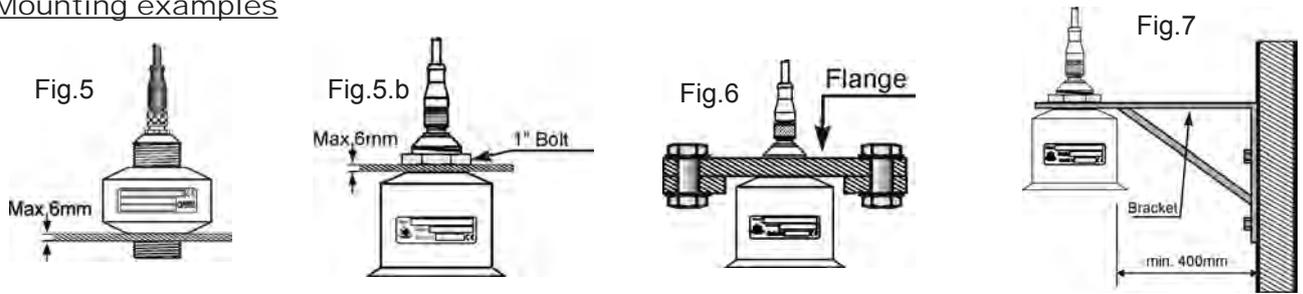
Also available with:

**RIL390-51** - DN100 PN6 UNI 1092-1/PP flange (optional accessory)

**RIL396** - DN120 PN6 UNI 1092-1/PP flange (optional accessory)



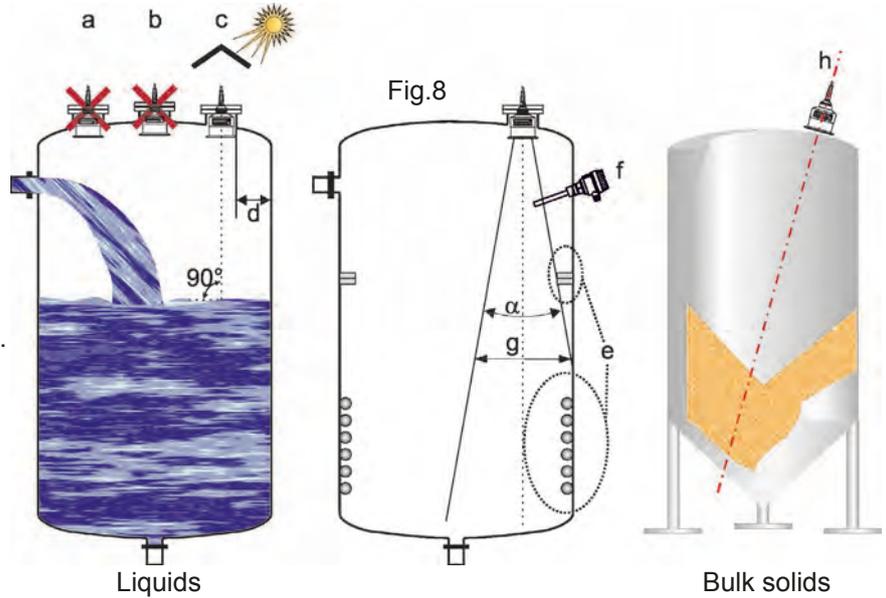
## 2.2 Mounting examples



## 2.3 Mounting precautions

### 2.3.1 Mounting position (Fig.8)

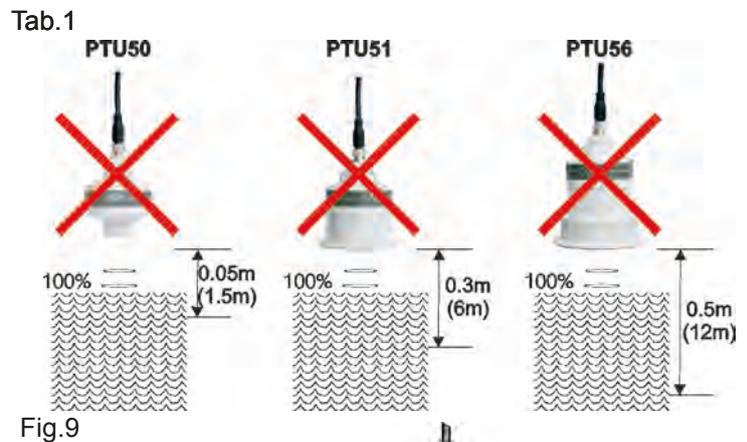
- With cambered roof, Do not install the sensor in the tank center (b). Leave a 300mm minimum distance between the sensor and the tank smooth wall (d).
- Use a protective cover to protect the sensor from weather and direct sunlight (c).
- Do not install the sensor near the load zone (a).
- Make sure that in the sensor emission beam (lobe " $\alpha$ ") there are no obstacles (f,s) that can be intercepted as level.
- Make sure that there is not foam presence on the product surface to be measured



	Lobo $\alpha$	L	g
RIL390 1.5m	10°	1.5m	0.3m (1.5m)
RIL391 6m	10°	6m	1.1m (6m)
RIL396 12m	10°	12m	2m (12m)

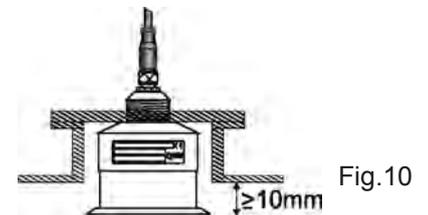
### 2.3.1 Blind distance

During installation is important to remember that in the sensor vicinity there is a blind zone (or **BLIND DISTANCE**) of **0.05m** (for 1.5m maxRIL390 range), **0.3m** (for 6m maxRIL391 range) or **0.5m** (for 12m maxRIL396 range) where the sensor can not measure.



### 2.3.2 Installation in nozzle

Installing the RIL390-91-96 sensor in a nozzle (see fig.10), make sure the sensor bottom protrudes at least 10 mm from the bottom nozzle



RIL390-91-96 can be installed in an extension pipe (see Figure 11) to turn away the sensor from the maximum level point. The extension pipe must be flat and without joints (welds, etc..), also, the pipe terminal part must be cut at 45° and with the borders without burr.

RIL390 1.5m - RIL391 6m		RIL396 12m	
D (mm)	Lmax(mm)	D (mm)	Lmax(mm)
100	180	125	240
125	240	150	300
150	300		

Tab.2

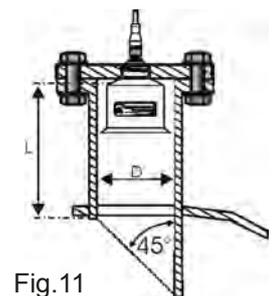


Fig.11

## 2.3.4 Reference pipe installation

Disturbing factors that may influence the level measurement in liquids, as for example:

- foam presence on the product surface (Fig.12)
- internal structures presence in the tank (Fig.13)
- presence on the liquid surface of floating bodies (Fig.14)

can be avoided with the use of level measurement inside of pipes (by-pass pipe or calm pipe with 100mm min. diameter for RIL390-51, or 125mm min. diameter for RIL396)

The pipe must have a length greater or equal than the empty distance, also, must have some of vent holes (Fig. 14-A) to allow the pipe regular filling and emptying.

In the programming menu, to the **"PRODUCT"** parameter, must select the **"LIQUID PIPE"** option (see page 7 or 11)

Fig.12

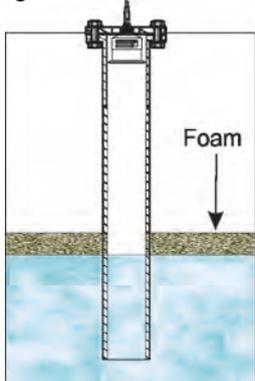


Fig.13

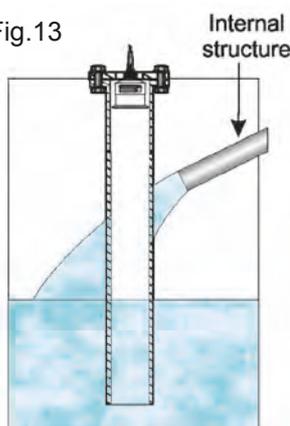
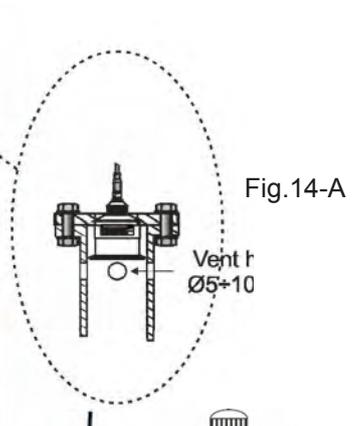
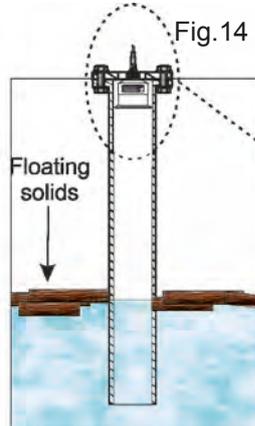


Fig.14



## 2.3.5 Agitators presence

The level measurement is possible thanks to the **Auto-Tuned** statistical filter.

Should rarely need to adjust the filter setting by editing 2 **RIL390-91-96**

sensorprogramming parameters:

- **FILTER**; this parameter is present in the **Quick Setup** menu (page 8) and in the Advanced Configuration **"SETUP"** menu (page 11); increasing the parameter value, decreases the sensor sensitivity to the level measurement sudden variations.
- **F-WINDOW**; this parameter is present in the Advanced Configuration **"SERVICE"** menu (page 18); decreasing the parameter programmed value, increases the sensor immunity to false echoes.



Fig.15

## 2.3.6 Mechanical installation accessories

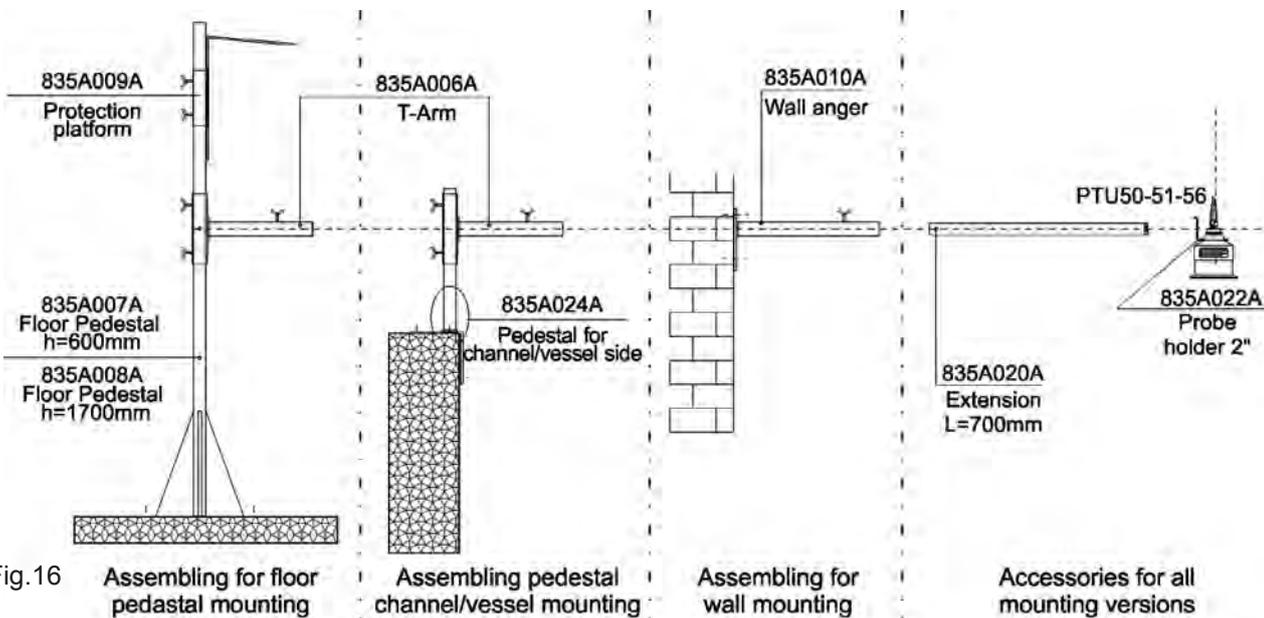


Fig.16 Assembling for floor pedestal mounting

Assembling pedestal channel/vessel mounting

Assembling for wall mounting

Accessories for all mounting versions

## 3. CONNECTIONS

### 3.1 Wiring

- 1) Separate the engine control cables or power cables from the **RIL39x** connection cables.
- 2) Isolate unused wires of the cable.
- 3) Fully tighten the connector ring nut

<b>Brown</b>	GND (0V)	<b>Green</b>	A (RS485)
<b>Red</b>	+24Vdc	<b>Blue</b>	B (RS485)
<b>White</b>	SDA Display	<b>Pink</b>	+3.3V Display
<b>Yellow</b>	+ 4÷20mA	<b>Grey</b>	SCL Display

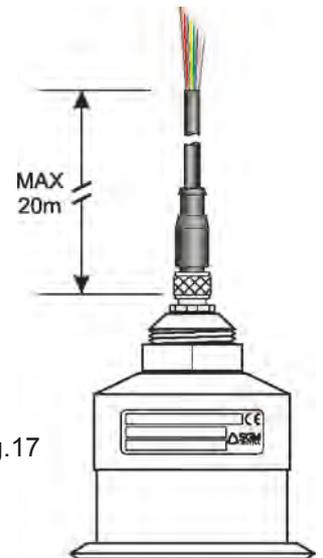


Fig.17

The immunity to electromagnetic interference complies with **CE** Directives

### 3.2 Humidity infiltrations

To avoid the humidity infiltration inside the connector is recommended:

- Fully tighten the connector ring nut
- position the cable so that it forms a downward curve at the M20 output (Fig. 18); in this way the condensation and/or rain water will tend to drip from the curve bottom

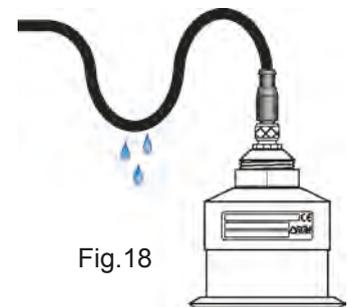


Fig.18

## 4. CONFIGURATION MODES

The **RIL390**, **RIL391** and **RIL396** have 2 configuration/calibration modes:

- via **MODBUS RTU**, by PC
- via **VLW601** programming module

### 4.1 Via MODBUS RTU

#### 4.1.1 MODBUS RTU PC connection (fig.19)

- 1) **RIL390**, **RIL391** or **RIL396** with **MODBUS RTU** communication protocol
- 2) USB/RS485 interface module, cod.694A004A
- 3) **MODBUS RTU** communication S/W, cod.010F105A (3)
  - With this software, by selecting the **UID** address, the **RIL390**, **RIL391** or **RIL396** transmitters in **MODBUS RTU** read on your PC monitor all measures in reading and **RIL390**, **RIL391** or **RIL396** operation data
  - programming all **RIL390**, **RIL391** or **RIL396** configuration parameters
  - storing on files, data logger function; **RIL390**, **RIL391** or **RIL396** measures in reading and operating states

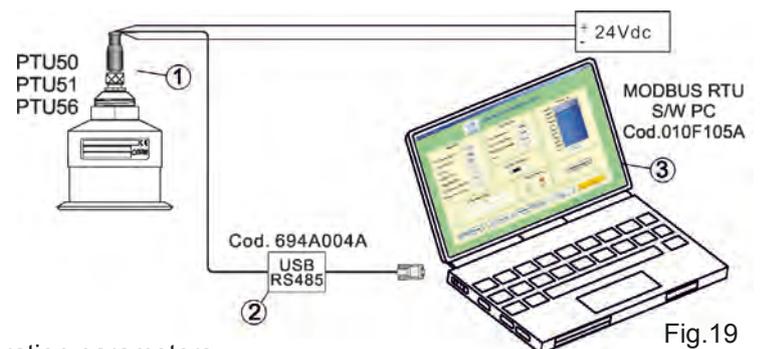


Fig.19

### 4.3 via VLW601 configuration

With the **VLW601** display module (Fig. 20) is possible to display the measured values and configure the **RIL390**, **RIL391** and **RIL396** sensors operating parameters. The **VLW601** module is equipped with matrix LCD.

))) displayed at the bottom indicates the correct echo signal reception

! displayed at the top alerts that there is a generic error; press  to show the message that indicates the present error type. The **RIL390**, **RIL391-56** returns automatically to RUN mode.



Fig.20

# RIL39x - Configuration and Quick Start

The **VLW601** program module has 4 buttons (fig. 21) which allow to perform all operational, control and programming instrument functions.

In the configuration menus, is possible:

- a) Submenus and parameters access; press to select and press to access.
- b) Parameter options choice: Press to select the option and press to store the option.  
Press to exit without storing
- c) Configure the parameter values; in some parameters the configuration is done by setting a value (eg., in the **SET DISTANCE 4mA** parameter is possible to change the the corresponding distance value, in mm): press to select the digit to be modified (the digit is highlighted in **inverse** ), press to change the highlighted digits number, press to save the set value and exit automatically. Press to exit without storing.

In the display top right, during the settings, there is always a number, eg. "1.2". This number is the menu or parameter index that's displayed. The menu structure is represented on page 7 and on pages 9÷10.

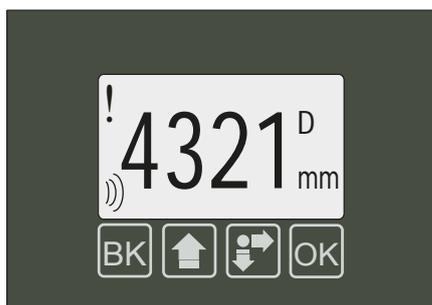


Fig.21

- Configuration access
- Options confirmation
- Parameters values confirmation
- Parameters values selection
- Parameters scroll
- Parameters values modification
- Exit configuration
- Back to previous menu

## With the VLW601 module is possible to access two configuration modes for the RIL390-51-



**QUICK START** - Menu with easy access for quick basic parameters configuration.

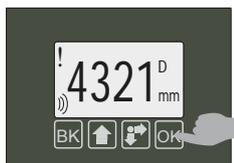
To access: from "RUN" mode press to the quick setup menu mode access, to exit

**ADVANCED CONFIGURATION** - Full menu with access to all parameters, including functional parameters. *It is recommended to carefully read the complete documentation before accessing.*

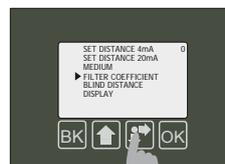
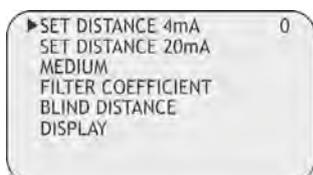
To access: from "RUN" mode, holding down , press to the advanced configuration mode access, to exit

## 5. QUICK START MODE

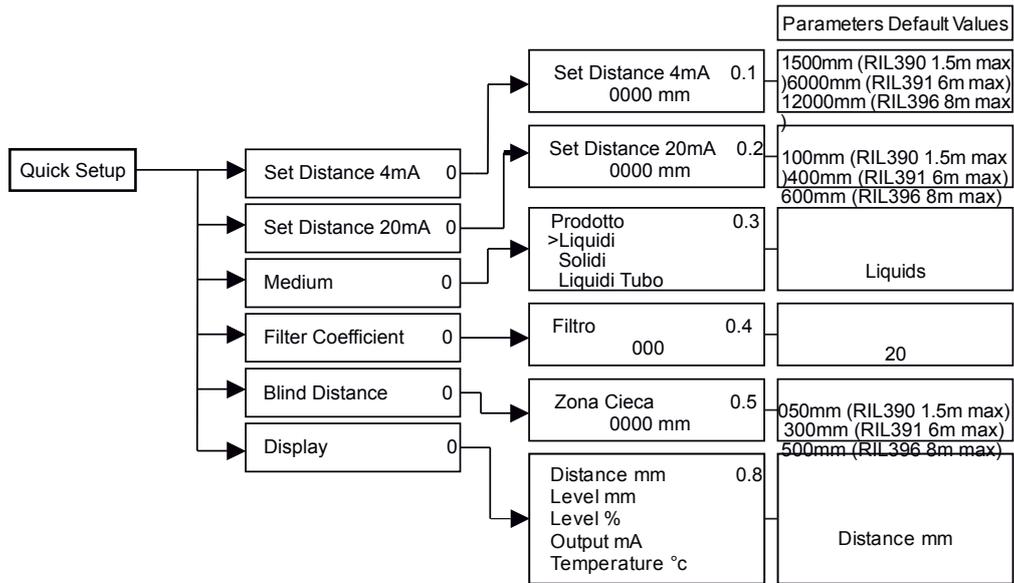
From "RUN" mode press to access the Quick Setup menu



Select the parameters by moving the cursor with , and confirm with ; press to exit

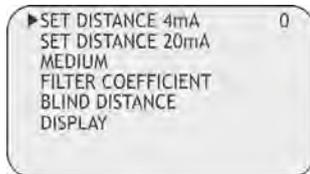


## 5.1 Struttura menù di configurazione rapida



### 5.1.1 SET DISTANCE 4mA

Press to display the distance value associated with 4mA output.

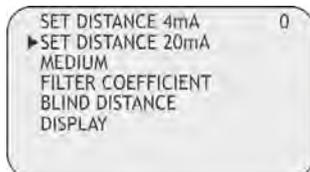


Use and to modify that value; in the Fig.22 example, the 4mA distance is 3500mm. Press to confirm.



### 5.1.2 SET DISTANCE 20mA

Press to display the distance value associated with 20mA output.

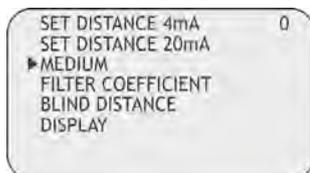


Use and to modify that value; in the Fig.22 example, the 20mA distance is 500mm. Press to confirm.



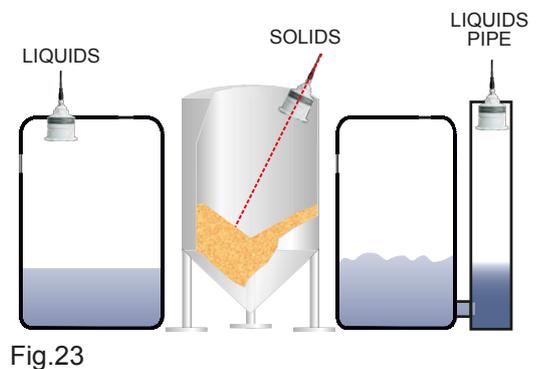
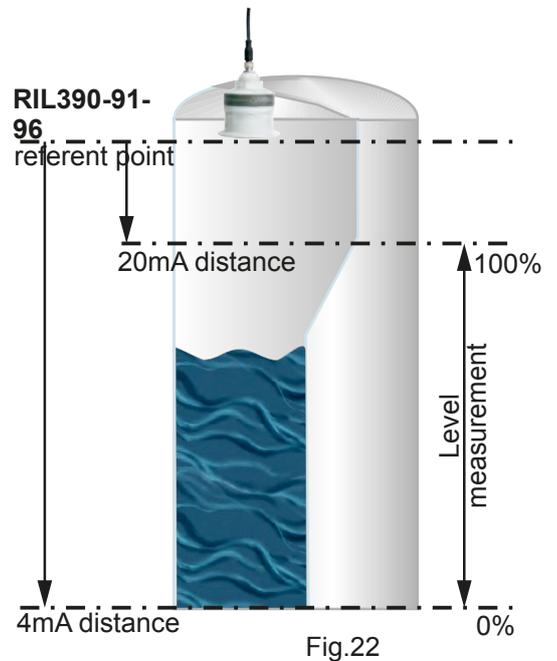
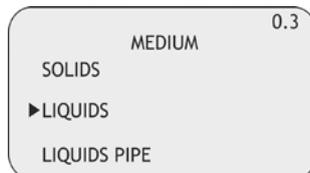
### 5.1.3 MEDIUM

Press to display the previous setting



Press to select the medium type. Press to confirm.

In fig.23 product selection example.



# RIL39x - Quick Start

## 5.1.4 FILTER COEFFICIENT

Press **ENTER**. Increasing the value slows down the sensor response speed.



Use **↑** and **↓** to modify the value. Input a value from 1 to 99. Press **ENTER** to confirm.



In fig.24 value choice example.

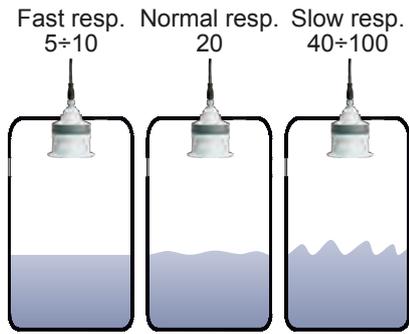
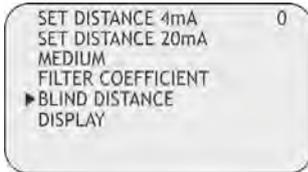


Fig.24

## 5.1.5 BLIND DISTANCE

Press **ENTER**. The **BLIND ZONE** is used to avoid undesired measures near to the transmitter



Use **↑** and **↓** to modify the value. Press **ENTER** to confirm. The minimum value is 50mm (RIL390), or 300mm



(RIL391) or 500mm (RIL396).

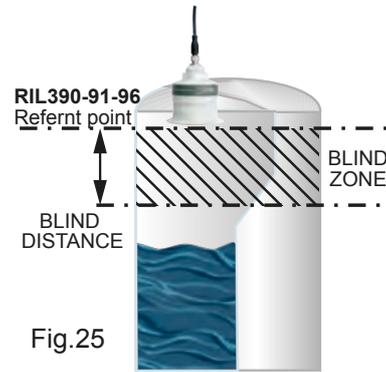
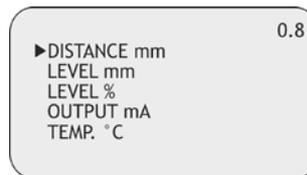
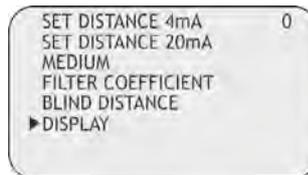


Fig.25

Press **ENTER** to access the settings change.



With the **↑** button is possible to select the data to display  
Press **ENTER** to confirm.

## 5.2 ECHO MAP

Pressing the **BK**, from RUN mode, to access directly to the echoes digital map display, which are in **RIL390-91-96** receiving (Fig.26).

This function is useful for:

- properly orient the transducer pointing.
- verify the echoes in acquisition correctness.
- identify any false echo signals that may cause measurement errors.

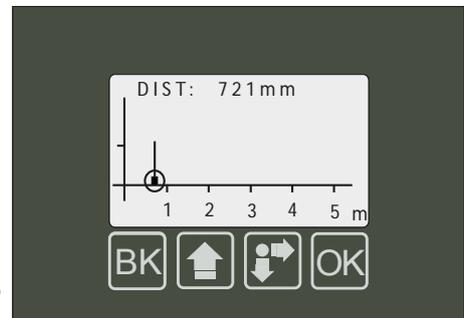


Fig.26

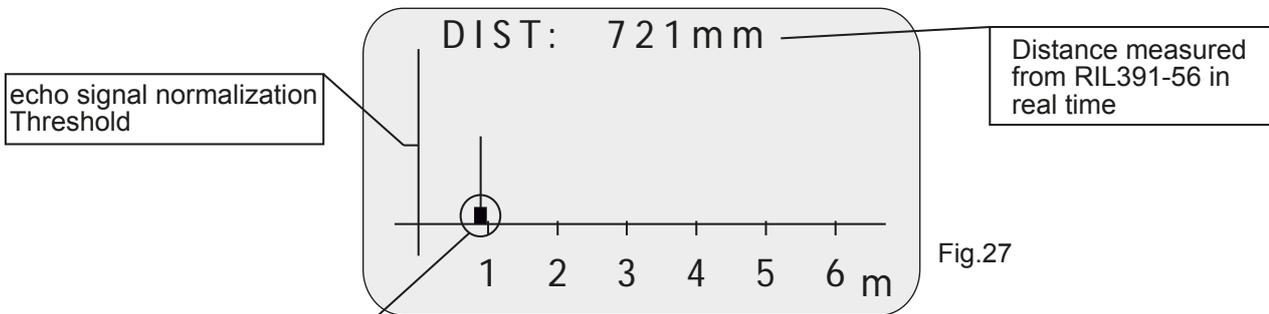


Fig.27

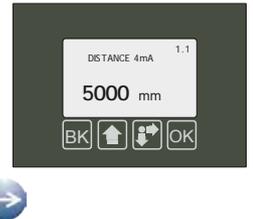
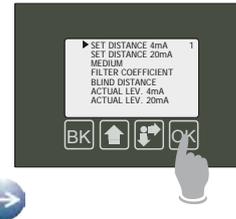
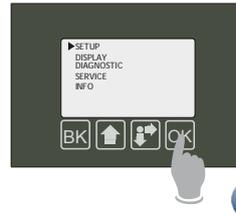
The rectangle placed at the echo line base, indicates the measurement range within which the echo signal in reception is considered always valid for the distance measurement. This interval value is variable depending on the measurement conditions: min. ± 2.5% of the measured distance

## 6. ADVANCED CONFIGURATION MODE

From "RUN" mode, holding down , press  to the advanced configuration mode access

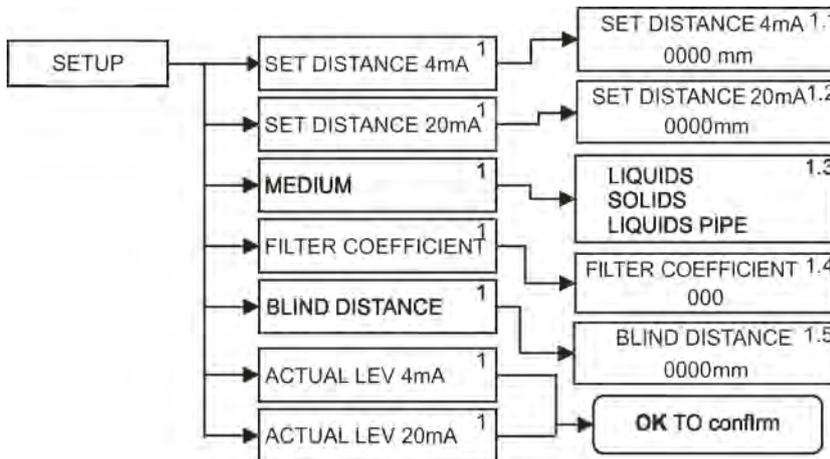


press  to select the menu and press  to access. Press  to exit

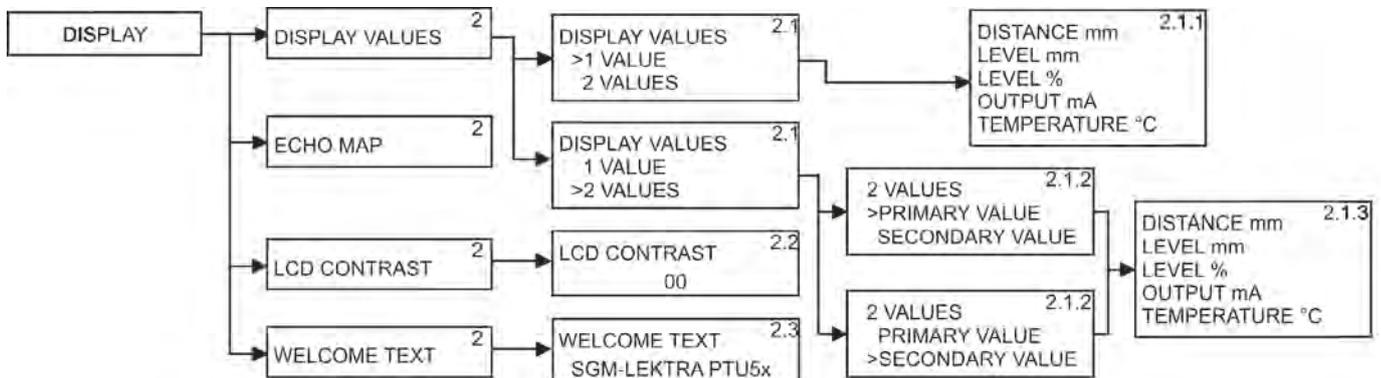


### 6.1 Advanced setup menu structure

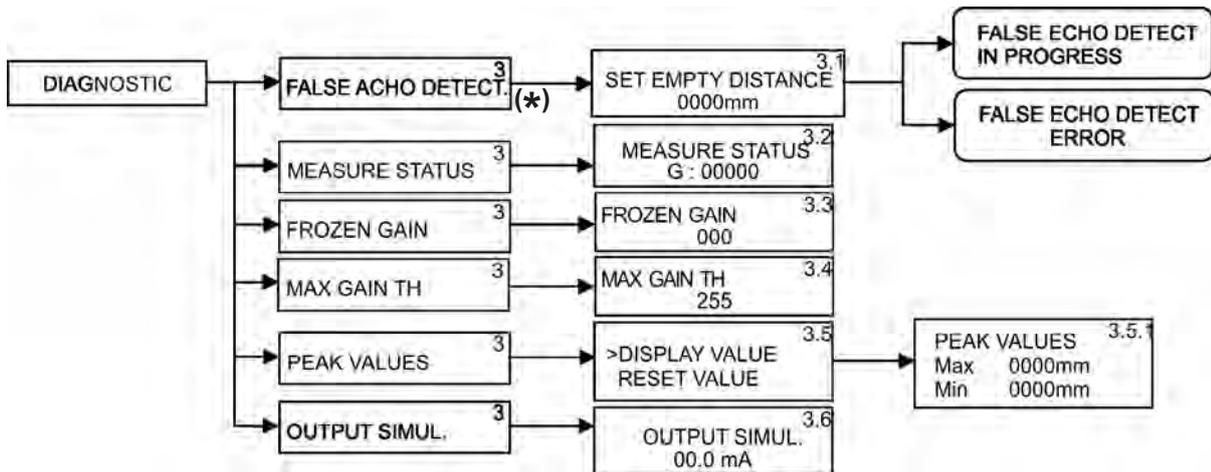
#### 6.1.1 "SETUP" menu



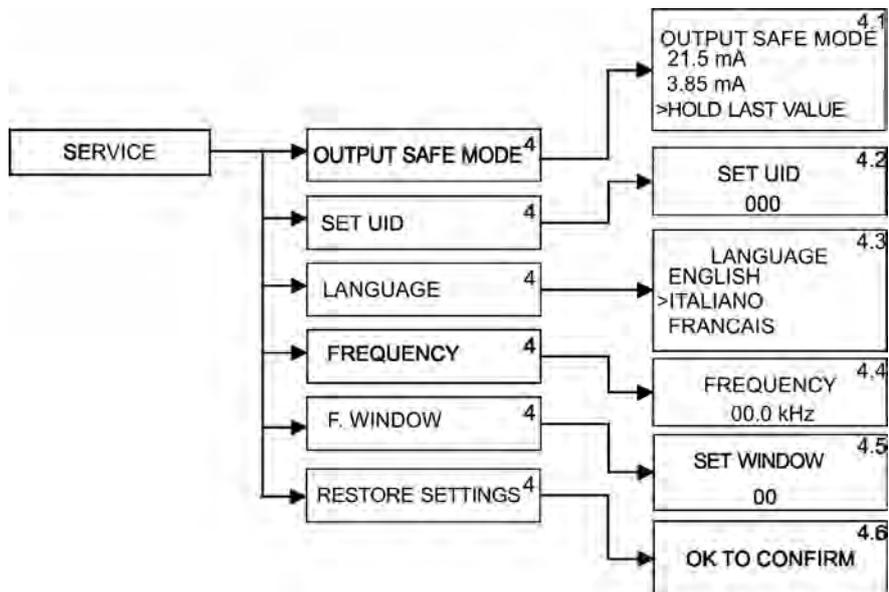
#### 6.1.2 "DISPLAY" menu



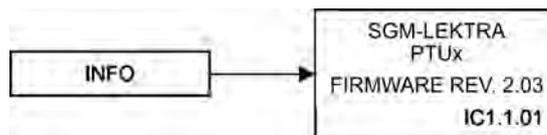
## 6.1.3 "DIAGNOSTIC" menu



## 6.1.4 "SERVICE" menu



## 6.1.4 "INFO" menu



(\*)This function is only active for RIL391 and RIL396

## 7. ADVANCED CONFIGURATION DETAIL

### 7.1 SETUP

From "RUN" mode, holding down , press  to access

▶SETUP  
DISPLAY  
DIAGNOSTIC  
SERVICE  
INFO

Select the parameters by moving the cursor with  and confirm with 

▶SET DISTANCE 4mA 1  
SET DISTANCE 20mA  
MEDIUM  
FILTER COEFFICIENT  
BLIND DISTANCE  
ACTUAL LEV. 4mA  
ACTUAL LEV. 20mA

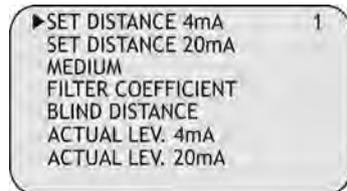
## 7.1.1 SET DISTANCE 4mA

Position the ► cursor on DISTANCE 4mA, press  to enter

Use  and  to modify the value.

Press  to confirm.  to exit without changes

Default value: 1500mm (**RIL390** range 1.5m), or 6000mm (**RIL391** range 6m) or 12000mm (**RIL396** range 12m)



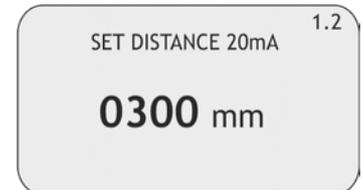
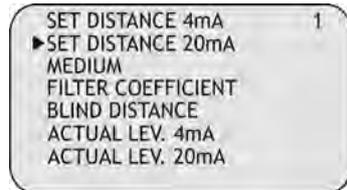
## 7.1.2 SET DISTANCE 20mA

Position the ► cursor on SET DISTANCE 20mA, press  to enter

Use  and  to modify the value.

Press  to confirm.  to exit without changes

Default value: 100mm (**RIL390** range 1.5m), or 400mm (**RIL391** range 6m) or 600mm (**RIL396** range 12m)



## 7.1.3 MEDIUM

Position the ► cursor on MEDIUM, press  to enter

Sono possibili 3 configurazioni:

SOLIDS - granular solids measurement

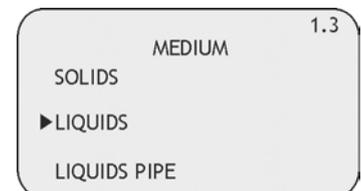
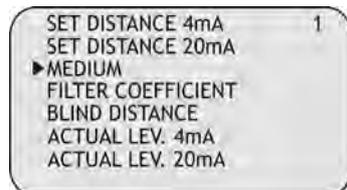
LIQUIDS - liquids measurement

LIQUIDS PIPE - liquids measurement in pipe reference

Press  to select the product type.

Press  to confirm.  to exit without changes

Default value: LIQUIDS



## 7.1.4 FILTER COEFFICIENT

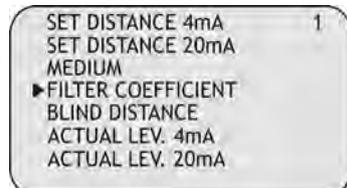
Position the ► cursor on FILTER COEFFICIENT, press  to enter

Immettere un valore da 1 a 99. 1 massima velocità, 99 massima lentezza. 0 esclude il filtro rendendo immediata la risposta

Use  and  to modify the value.

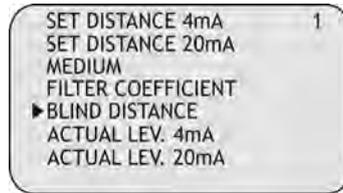
Press  to confirm.  to exit without changes

Default value: 20



## 7.1.5 BLIND DISTANCE

Position the ► cursor on BLIND DISTANCE, press to enter



Represent the “BLIND ZONE” of the sensor. Input the desired value in order to avoid measures near the surface of the sensor (if necessary). The minimum value is 50mm (RIL390), or 300mm (RIL391) or 500mm (RIL396). Use and to modify the value.

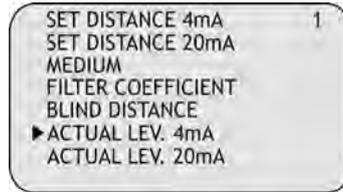


Press to confirm.

Default values: 50mm (RIL390), or 300mm (range 5m) or 500mm (RIL396)

## 7.1.6 ACTUAL LEV. 4mA

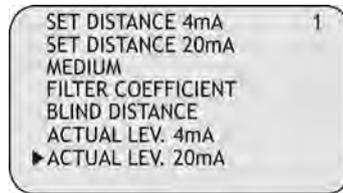
Position the ► cursor on ACTUAL LEV. 4mA, press to enter Self distance learning function that is associated with the 4mA (lower value). Make sure that the level corresponds to 0%, to associate the actual measure with 4mA output value;



**OK TO CONFIRM** . to exit without change

## 7.1.7 ACTUAL LEV. 20mA

Place the ► cursor on ACTUAL LEV. 20mA, press to enter Self distance learning function that is associated with the 20mA (lower value). Make sure that the level corresponds to 100%, to associate the actual measure with 20mA output value;



**OK TO CONFIRM** . to exit without change

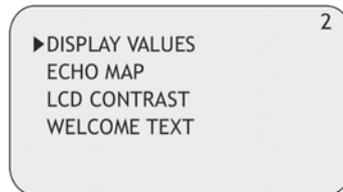
## 7.2 DISPLAY

From “RUN” mode, holding down , press to access



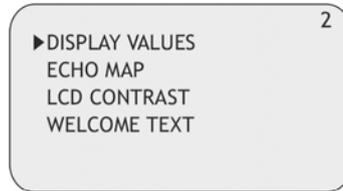
Position the ► cursor on DISPLAY, press to enter

Select the parameters by moving the cursor with and confirm with



### 7.2.1 DISPLAY VALUES

Position the ► cursor on DISPLAY VALUES, press to enter



It's possible to select if one value with big digits or two values are shown on the display in “RUN” mode

With the button you can select the parameter to be programmed.

Press to confirm. to exit without changes

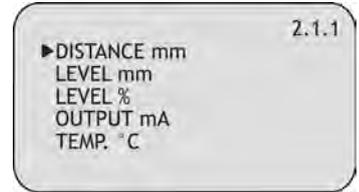


## 7.2.1.1 1 VALUE

Position the ► cursor on 1 VALUE, press  to enter

Only one value is displayed; it's possible to choose from 5 parameters.  
With the  button you can select data to display.

Press  to confirm.  to exit without changes

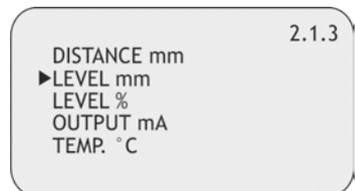
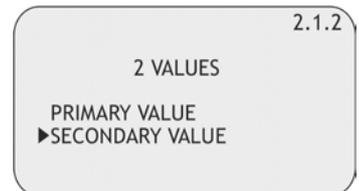
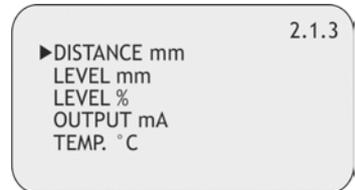
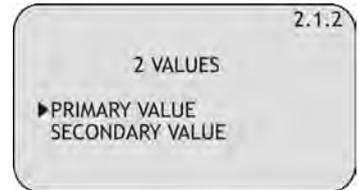


## 7.2.1.2 2 VALUES

Position the ► cursor on 2 VALUES, press  to enter

Two values are displayed; it's possible to choose which one is the primary and which is the secondary, each with a choice of 5 parameters  
With the  button you can select data to display

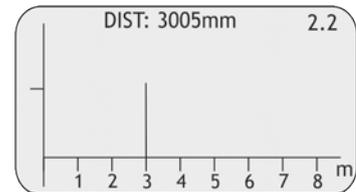
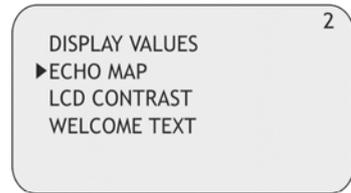
Press  to confirm.  to exit without changes



## 7.2.2 ECHO MAP

Position the ► cursor on ECHO MAP, press to enter

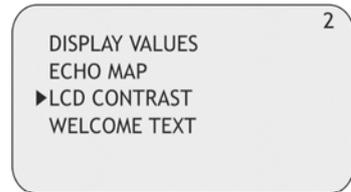
Detailed function description on page 13, figure 34  
 to exit and return to the menu 2



## 7.2.3 LCD CONTRAST

Position the ► cursor on LCD CONTRAST, press to enter

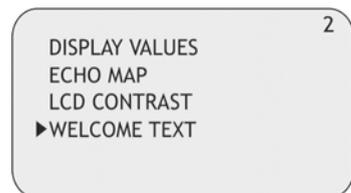
it's possible to adjust the contrast of LCD, simply increasing or decreasing the value of a parameter from 0 to 63.  
 Use and to modify the value.  
 Press to confirm. to exit without changes  
 Default value: 32



## 7.2.4 WELCOME TEXT

Position the ► cursor on WELCOME TEXT, press to enter

It's possible to edit or delete the message that is displayed by the RIL391-56 during the ignition phase.  
 Use (up scroll) and (down scroll) to change the digit; to move the digit to the right. To confirm press repeatedly until leave the parameter.  
 to exit without changes  
 Default value: RIL39x

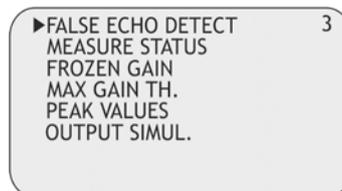
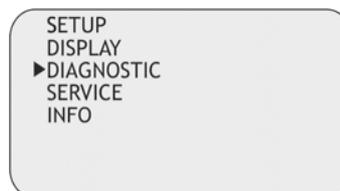


## 7.3 DIAGNOSTIC

From "RUN" mode, holding down , press to access

Position the ► cursor on DIAGNOSTIC, press to enter

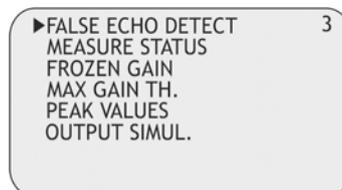
Select the parameters by moving the cursor with and confirm with



### 7.3.1 FALSE ECHO DETECT

Position the ► cursor on FALSE ECHO DETECT, press to enter

**NB** - To use this parameter the tank *must strictly be empty*  
**This function is only active for RIL391 and RIL396**



It's necessary to input the empty distance (distance from the tank bottom)  
Use and to modify the value.

Press to confirm. to exit without changes

“RIL391-56” automatically stores all echoes detected and implemented an echo true and any eventual spurious echoes automatic selection. After this, the following message is displayed: **FALSE ECHO DETECT PROGRESS**  
After procedure completion, the detected false echoes distances are displayed and automatically stored (up to 3 false echoes). Press to return to the “DIAGNOSTIC” menu If something's not correct

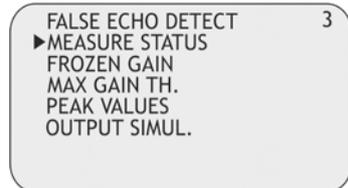
(e.g wrong empty distance value, obstacles that hides the bottom) the following message is displayed:  
**FALSE ECHO DETECT ERROR**

*Note: False echo detect procedure is not recommended for pipe and stand-pipe applications  
To delete this function, need to restore the default parameters (see par. 7.4.5)*

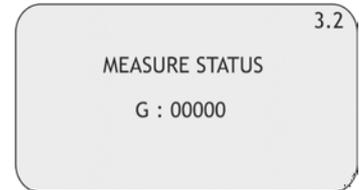


### 7.3.3 MEASURE STATUS

Position the cursor on MEASURE STATUS, press to enter

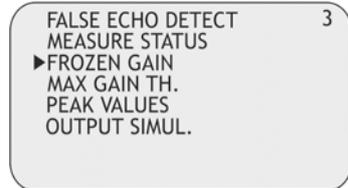


It's possible to display the gain of the system, with values from 0 to 255.  
While displayed, the automatic gain control is not active  
 to exit



### 7.3.4 FROZEN GAIN

Position the cursor on FROZEN GAIN, press to enter



It's possible to fix a value of gain (from 1 to 255) and consequently disable the automatic gain control. Once the value is 000 the automatic gain control restarts

Use and to modify the value.

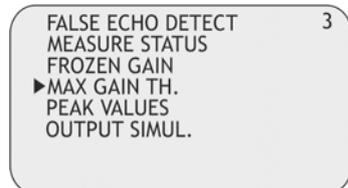
Press to confirm. to exit without changes

Default value: 000



### 7.3.5 MAX GAIN TH

Position the cursor on MAX GAIN TH, press to enter



It's possible to input a value of gain that it should be not reached in normal operation. If the gain exceeds this value, the “GAIN” error code is activated.

Use and to modify the value.

Press to confirm. to exit without changes

Default value: 255 (Max gain)



## 7.3.6 PEAK VALUES

Position the ► cursor on PEAK VALUES, press  to enter



The system store the maximum distance and the minimum distance measured since the power is turned ON.

It's possible to see those values or reset the values

With the  button you can select the function.

Press  to confirm.



### 7.3.6.1 DISPLAY VALUES

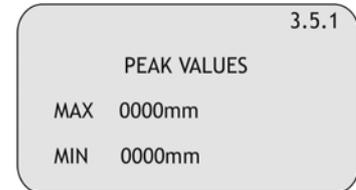
Position the ► cursor on DISPLAY VALUES, press  to enter



Displays the max. and min. distance measured from power on.

 to exit.

**NB** - The peak values stored are erased every time the RIL391-56 turns-off



### 7.3.6.2 RESET VALUES

Position the ► cursor on RESET VALUES, press  to reset

 to return to the previous menu.



## 7.3.7 OUTPUT SIMULATION

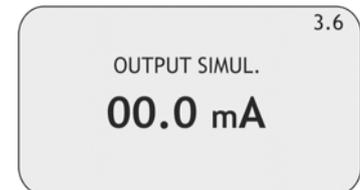
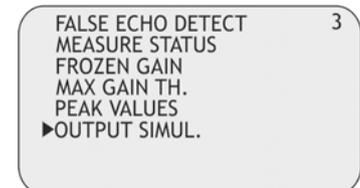
*WARNING - entering in the SIMULATION function, the current output is not in function of the level measurement. To restore the current as a measured level function, press the  button 3 times (RUN mode)*

Position the ► cursor on OUTPUT SIMULATION, press  to enter .

It's possible to force the analog output to a desired value.

Use  and  to modify the value.

Press  to return to the previous menu.

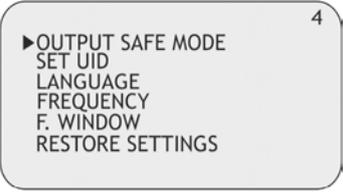


## 7.4 SERVICE

From "RUN" mode, **holding down** , press  to access

Position the  cursor on SERVICE, press  to enter

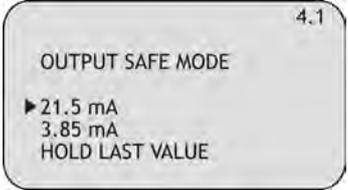
Select the parameters by moving the cursor with  and confirm with 



### 7.4.1 OUTPUT SAFE MODE

Position the  cursor on OUTPUT SAFE MODE, press  to enter

It's possible to choose a analog output value durin diagnostic errors.  
 "21.5 mA" forces the current output to 21,5mA  
 "3.85 mA" forces the current output to 3,85mA  
 "HOLD LAST VALUE" maintains the output at the last valid value.  
 With the  button you can select the operation mode.  
 Press  to confirm.  to exit without changes  
 Default value: HOLD LAST VALUE



### 7.4.2 SET UID

Position the  cursor on SET UID, press  to enter  
 Can assign the address UID in this parameter, for a MUDBUS RTU network

Use  and  to modify the value.  
 Press  to confirm.  to exit without changes  
 Default value: 001



### 7.4.3 LANGUAGE

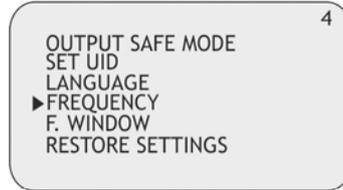
Position the  cursor on LANGUAGE, press  to enter  
 Sets the menu language: English, Italian, French

Press  to select the menu language.  
 Press  to confirm.  to exit without changes



## 7.4.5 CHECK FREQUENCY

Position the ► cursor on CHECK FREQUENCY, press  to enter



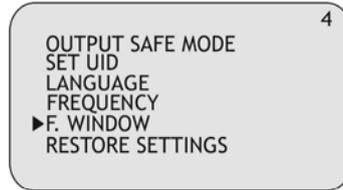
It's possible to check the computed sensor emission frequency  
 to exit



## 7.4.6 F. WINDOWS

Position the ► cursor on F. WINDOWS, press  to enter

Refer to figure 34 on page 13 .The F.WINDOW is the sensitive area width around the true echo. All echoes detected inside the F.WINDOW are valid. F.WINDOW automatically centers itself in the most probable echo neighborhood and automatically adjusts its width (step). The step value of the window, expressed in cm, is represented by SET WIDTH; for example: parameter set to 5; the sensor is hooked to a 4m distant signal echo; suddenly the echo signal disappears and a echo signal is detected to 1m; RIL391-56 will start to open the search range with steps of 5cm at each echo signal emission, so to cover the 3 meters that separate the 4m distant signal echo by the new 1m distant echo, RIL391-56 will take 60 emissions to reach the new 1m distance eco. This parameter serves to filter false echo signals products, for example, by the agitator blades. Range: 00÷20



Press  to confirm.  to exit without changes



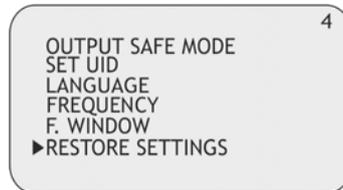
Default value: 05

## 7.4.5 RESTORE SETTING

Position the ► cursor on RESTORE SETTING, press  to enter

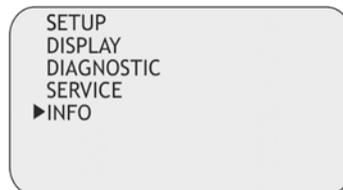
Press  to restore the RIL391-56 default settings

 to exit without restored the RIL391-56 default settings.



## 7.5 INFO

Position the ► cursor on INFO, press  to enter



In addition to information about the manufacturer, are displayed the firmware revision and the configuration index.

 to exit.

