









## RISKS AND PROTECTIONS BEFORE ASSEMBLY



All installation works must be done with battery disconnected, using suitable tools and any individual protection equipment deemed necessary.

### Positioning



1) Set mounting rail in cabin and fasten it with the relevant screws (1), in a position where VISIO can be easily seen and at hands' reach, but away from any moving organs.

2) Secure VISIO to rail and push down until locked in place.

3) Fasten wiring so that it does not interfere with any moving parts.

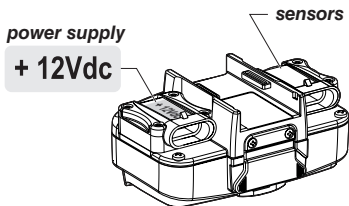
### Power supply and sensor connection





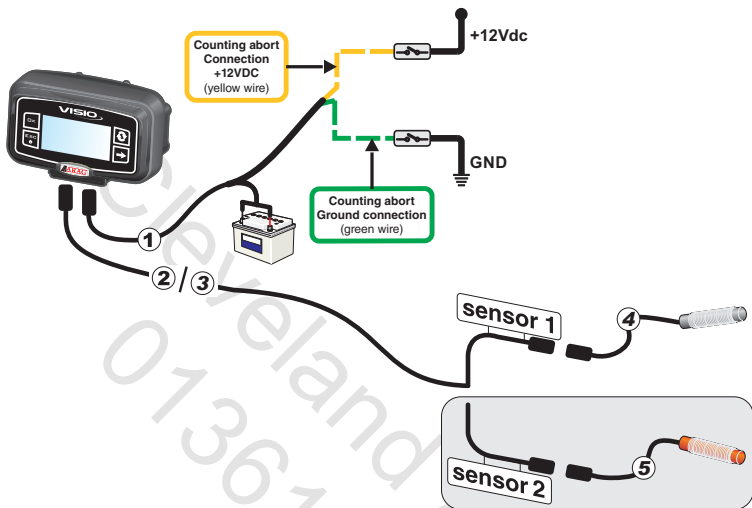
Sensors and power supply must be installed and connected by qualified personnel. VISIO must be exclusively connected to ARAG equipment. **WHEN ARC WELDING IS REQUIRED, MAKE SURE THAT EQUIPMENT POWER IS SWITCHED OFF; DISCONNECT POWER CABLES IF NEEDED.**



ARAG is not liable for damage to the system, persons, animals or property caused by VISIO wrong or unsuitable assembly. Failure to observe the above instructions automatically voids the warranty.



Wire color (power cable)	Connection of
red	 positive
black	 negative
green	counting abort - ground connection
yellow	counting abort - connection +12VDC



## Legend:

- 1) Power cable
- 2) Connection cable for single sensor
- 3) Connection cable for double sensor\*
- 4) Rpm sensor 1
- 5) Rpm sensor 2\*

\* = optional, according to the selected configuration.

### First switching on

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At first switching on, VISIO will run a guided procedure allowing user to set the device's basic settings.

Press  to scroll through items, **OK** to save and move on to next setting, or **ESC** to go back to previous setting.

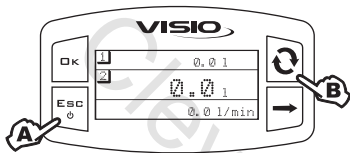


**WARNING:** Before changing operating mode, make sure that all sensors / flowmeters are **DISCONNECTED** from the device.

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In the following pages, according to the set operating mode, some menu items could slightly differ from the shown ones.



### SWITCHING ON

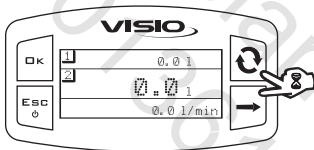
**A** Press for 1 second

**B** Press the key a few times to view the various values in extended mode, (on display central part)

Every time the device is switched on, it will shortly show a page with the name of device and software version.

### SWITCHING OFF

**A** Press for 2 seconds



### ACCESS TO SETUP MENU

From the main page, press keys at the same time for 2 seconds to open the Setup Menu.



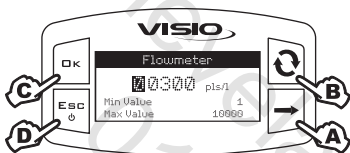
## SELECTION AND ACCESS TO MENU ITEMS

**A** Press a few times to scroll through items (selected item is indicated by a black line)

**B** Press to open the selected menu item



The three dots under an item indicate presence of another setup menu.



## EDITING A VALUE

**A** Press to move through digits

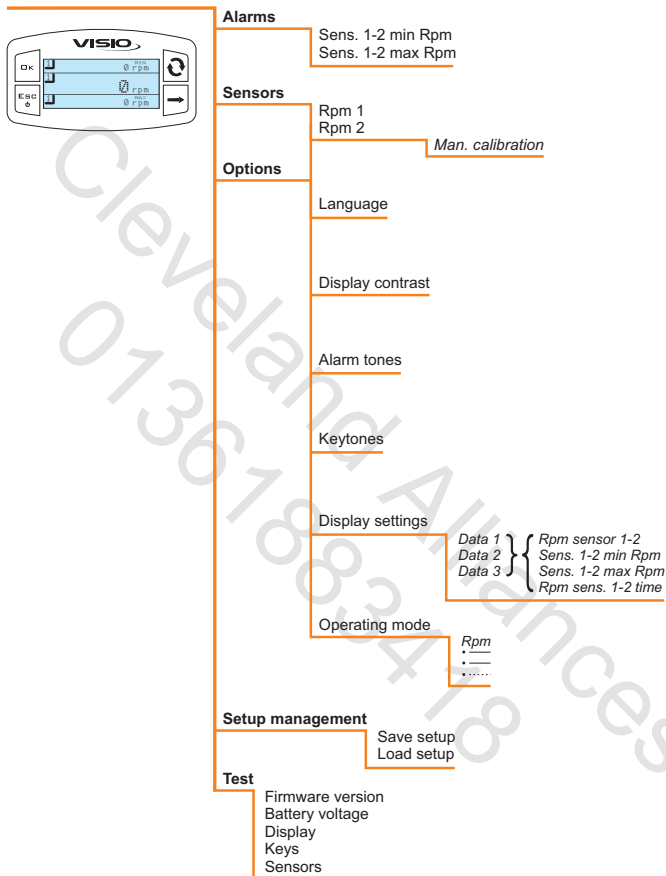
**B** Press a few times to edit the highlighted digit

**C** Press to confirm. The display goes back to previous page

**D** Press to exit page without confirming modification



Edited value must fall within the range shown.



## RPM Alarms

Set the desired alarm display thresholds for minimum and maximum Rpm values.



1) Open Alarm menu (Setup menu > Alarms).



**Minimum and maximum Rpm alarms are set in the same way.**

The display will show the current setting below the selected item.

Press **OK** to edit the selected menu item.



**This menu allows setting two different sensors (if available).**

In case only one sensor is used, use items related to sensor 1 to perform the correct settings.



2) To activate the alarm, press  and



at the same time until message **OFF** goes off and the Rpm alarm value is displayed instead.

Carry out the same procedure to disable alarm again.



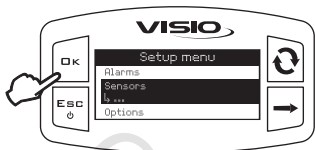
3) Set alarm value:

A) Press to move through digits.

B) Press a few times to edit the highlighted digit.

C) Press to save changes, or

D) Press to quit the page without confirming changes.

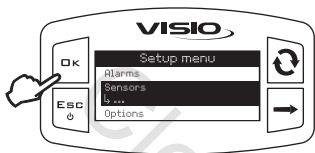


1) Open Sensors menu (Setup menu > Sensors).

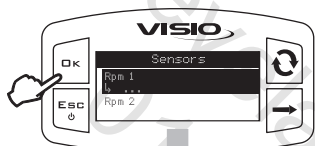
The menu items displayed below change according to the set operation mode: when more items are available, select the desired one and press **OK** to edit it.

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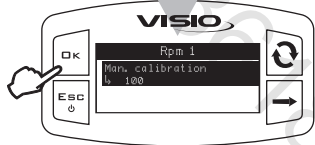
VISIO processes the rotation speed information related to a specific part through the pulses from the Rpm sensor. The manual calibration allows entering the Rpm constant value.




1) Open Sensors menu (Setup menu > Sensors).



2) Press to open manual calibration mode.



 **This menu allows setting two different sensors (if available). In case only one sensor is used, use items related to Rpm 1 to perform the settings.**



3) Set the Rpm constant value, i.e. the number of detection points, such as magnets or bolts fitted on the rotating shaft whose rotation speed shall be detected:

- A) Press to move through digits.
- B) Press a few times to the highlighted digit.
- C) Press to save changes, or
- D) Press to quit the page without confirming changes.

## Language

Set the desired language.



Open language setting menu (Setup menu > Options > Language).

**The display will show the current setting below the selected item.**

Press **OK** to select the language.



1) Select a language through .

2) Press **OK** to save, or **ESC** to quit without saving.

## Display contrast

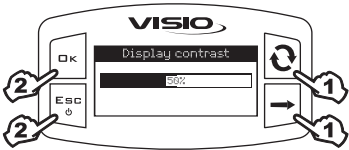
Set display contrast.





Open display contrast menu (Setup menu > Options > Display contrast).

**The display will show the current setting below the selected item.**

Press **OK** to edit the selected menu item.

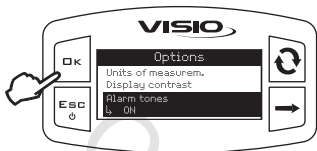


1) Set a value through . Every time you press it, value will increase by 5% up to 100%. Use  key to decrease value by 5%.

2) Press **OK** to save, or **ESC** to quit without saving.

## Alarm tones

Enable/disable the alarm tones.



Open Alarm tones menu (Setup menu > Options > Alarm tones).

**The display will show the current setting below the selected item.**

Press **OK** to edit the selected menu item.

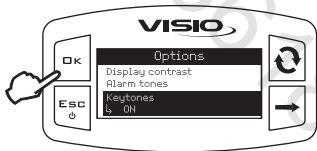


1) Set status through  key.

2) Press **OK** to save, or **ESC** to quit without saving.

## Keytones

Enable/disable keytones.




1) Open keytones menu (Setup menu > Options > Keytones).

**The display will show the current setting below the selected item.**

Press **OK** to edit the selected menu item.



1) Set status through  key.

2) Press **OK** to save, or **ESC** to quit without saving.

## Display settings

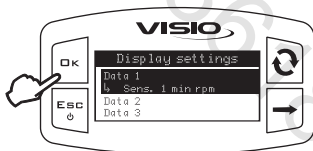
1	0	MIN	r p m
1	0	r p m	
1	0	MAX	r p m


The main page shows the display divided into three horizontal parts, which can be separately reset (according to the value). Every sector can be assigned the desired value:

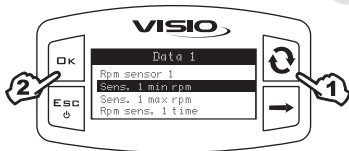
- Rpm sensor 1-2 = Rpm live reading;
- Min. Rpm sens. 1-2 = minimum detected Rpm;
- Max. Rpm sens. 1-2 = maximum detected Rpm;
- Rpm sens. 1-2 time = value, measured in seconds, during which VISIO has detected a movement different from 0.




Open Display settings menu (Setup menu > Options > Display settings). Press **OK** to edit the selected menu item.



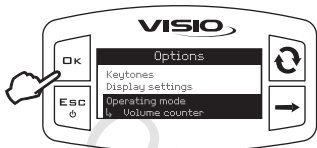
- 1) Select value through .
- 2) Press **OK** to edit, or **ESC** to quit without saving.



- 1) Set sector to the required value through .
- 2) Press **OK** to save, or **ESC** to quit without saving. Carry out the same procedure for the other 2 values.

## Operating mode

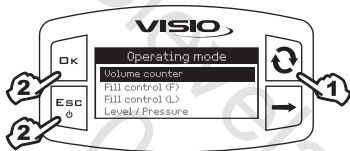
Set required operating mode.



Open operating mode menu (Setup menu > Options > Operating mode).

**The display will show the current setting below the selected item.**

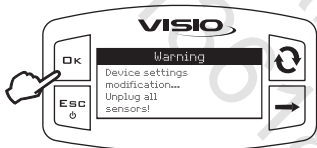
Press **OK** to change the operating mode.



1) Select the required operating mode

through .

2) Press **OK** to save, or **ESC** to quit without saving.



**WARNING:** Once **OK** is pressed, the page on the side will be displayed.

**Before changing operating mode, make sure that all sensors are DISCONNECTED from the device.**

Press **OK** to confirm changes.

**Connect the sensors REQUIRED FOR THE SET OPERATING MODE.**

## Setup management

VISIO settings can be loaded from or saved on a USB pen drive in order to reconfigure it if required, fix problems or set another VISIO with no need to repeat all manual operations.



Once installation is completed, and VISIO operation has been checked, we recommend to save all settings onto a USB pen drive.

To be able to use the following functions it is necessary to insert a USB pen drive in the relevant port at the bottom of VISIO.



1) Open Setup management menu (Setup menu > Setup management).

Press **OK** to edit the selected menu item.



### Load setup

Allows to select a configuration file saved in the USB pen drive and to set VISIO again.

**WARNING:** By loading the **SETUP.BIN** file contained in the **USB pen drive** onto the **VISIO**, all current settings will be lost.

1) Select the desired control through  key.

2) Press **OK** to confirm loading, or **ESC** to quit without saving.

The **SETUP.BIN** file can be loaded only if it is saved in the USB pen drive root directory.

If setup download involves changing operating mode and using different sensors than the ones in use, make sure that all sensors are **DISCONNECTED** from the device.

Press **OK** to confirm loading.

Reconnect sensors.



### Save setup

Allows saving VISIO configuration file on the USB pen drive: it will be possible to load it again any time the same settings need to be retrieved.

1) Select the desired control through



key.

2) Press **OK** to confirm saving, or **ESC** to quit without saving.



**If a SETUP.BIN file is already present in the USB pen drive root directory, the file will be overwritten.**

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## Test menu

This menu allows user to view some data and carry out an operation test of VISIO:

**- Firmware version:**

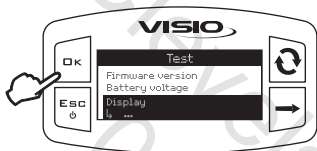
the display shows the firmware version installed.

**- Battery voltage:**

the display shows the power voltage of the device.

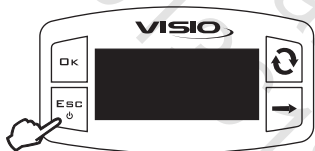
### Display test

Display test checks the device display correct operation.



1) Open display test menu (Setup menu > Test > Display).

Press **OK** to perform the test.

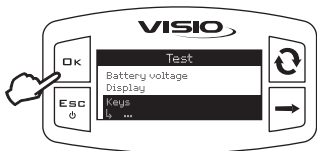


All pixels on display are turned on.

Press **ESC** to go back to previous page.

### Keys test

Keys test checks the device keys correct operation.



Open keys test menu (Setup menu > Test > Keys).

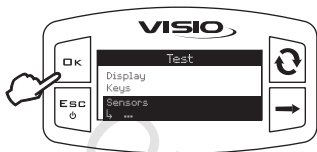
Press **OK** to perform the test.



1) Press any key and the corresponding display area will turn on.

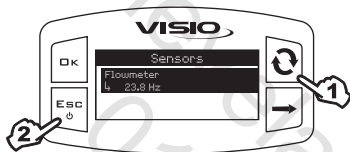
Press **ESC** to quit: as soon as you acknowledge the switch-on on of the corresponding area on the display, device will go back to previous page.

Sensors test checks correct operation of the sensors connected to the device.



Open sensors test menu (Setup menu > Test > Sensors).

Press **OK** to perform the test.

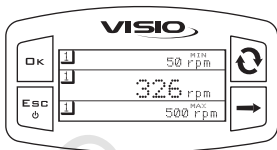


The display will show the current sensor reading below the selected item.

1) Several sensors could be displayed, depending on the set operating mode. In this case, select required sensor

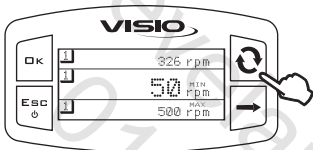
through .

2) Press **ESC** to quit.

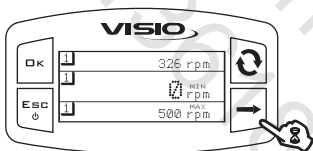



Activate the rotating part. The display will start showing the detected value.

**Partial totalizer reset**



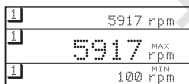
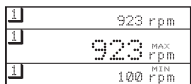
To reset a totalizer you must view it in extended mode. Press key several times until value to be reset is at the central area of the display.



Press  key for two seconds. Totalizer resets.

Symbol  indicates that the value exceeds the maximum value that can be displayed.

Totalizers display maximum 4 digits.



- Clean only with a soft wet cloth.
- Do not use aggressive detergents or products.
- Do not clean equipment with direct water jets.

**Troubleshooting**

<b>FAULT</b>	<b>CAUSE</b>	<b>REMEDY</b>
VISIO is off or does not switch on	No power supply	Check power cable connections
	Device is OFF	Press the ON key
VISIO shows wrong data	Wrong setup	Check displayed data setup
	Sensor fault	Contact the nearest Assistance Center
	VISIO fault	
Filling pump (if any) does not start	Pump Stop Module not powered	Check power supply connection

**END OF LIFE DISPOSAL**

Dispose of the system in compliance with the established legislation in the country of use.

## TECHNICAL DATA

### Device technical data

Description	VISIO
Display	Graphic LCD, 128 x 64 pixels, back-lighting
Power supply voltage	9 ÷ 16 Vdc
Protection against short-circuit	•
Protection against polarity inversion	•
Max. frequency	1.2 KHz
Analog inputs	4 ÷ 20 mA
Digital output - Max current	100 mA
Maximum power input (with no sensors connected)	160 mA
Operating temperature	-20 °C ÷ 70 °C -4 °F ÷ +158 °F
Storage temperature	-30 °C ÷ 80 °C -22 °F ÷ +176 °F
Size	126 x 79 x 66 mm
Weight	245 g

## Setup menu

	Data	Min.	Max.	Default	UoM	Notes
<b>Sensor</b>	Calibration	1.0	200.0	60.0	pls/l	--
<b>Rpm alarms</b>	Min. RPM	1	9999	OFF	RPM	Alarm can be disabled by setting value to "OFF"
	Max. RPM	1	9999	OFF	RPM	Alarm can be disabled by setting value to "OFF"
<b>Display</b>	Contrast	0	100	50	%	--
<b>Options</b>	Language	-	-	English	-	<b>Available languages:</b> Italiano, English, Español, Português, Français, Deutsch, Český, Polski, Русский, Magyar, コホン.

## GUARANTEE TERMS

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1. ARAG s.r.l. guarantees this apparatus for a period of 360 days (1 year) from the date of sale to the client user (date of the goods delivery note).  
The components of the apparatus, that in the unappealable opinion of ARAG are faulty due to an original defect in the material or production process, will be repaired or replaced free of charge at the nearest Assistance Center operating at the moment the request for intervention is made. The following costs are excluded:
  - disassembly and reassembly of the apparatus from the original system;
  - transport of the apparatus to the Assistance Center.
2. The following are not covered by the guarantee:
  - damage caused by transport (scratches, dents and similar);
  - damage due to incorrect installation or to faults originating from insufficient or inadequate characteristics of the electrical system, or to alterations resulting from environmental, climatic or other conditions;
  - damage due to the use of unsuitable chemical products, for spraying, watering, weedkilling or any other crop treatment, that may damage the apparatus;
  - malfunctioning caused by negligence, mishandling, lack of know how, repairs or modifications carried out by unauthorized personnel;
  - incorrect installation and regulation;
  - damage or malfunction caused by the lack of ordinary maintenance, such as cleaning of filters, nozzles, etc.;
  - anything that can be considered to be normal wear and tear.
3. Repairing the apparatus will be carried out within time limits compatible with the organizational needs of the Assistance Center.  
No guarantee conditions will be recognized for those units or components that have not been previously washed and cleaned to remove residue of the products used;
4. Repairs carried out under guarantee are guaranteed for one year (360 days) from the replacement or repair date.
5. ARAG will not recognize any further expressed or intended guarantees, apart from those listed here.  
No representative or retailer is authorized to take on any other responsibility relative to ARAG products.  
The period of the guarantees recognized by law, including the commercial guarantees and allowances for special purposes are limited, in length of time, to the validities given here.  
In no case will ARAG recognize loss of profits, either direct, indirect, special or subsequent to any damage.
6. The parts replaced under guarantee remain the property of ARAG.
7. All safety information present in the sales documents regarding limits in use, performance and product characteristics must be transferred to the end user as a responsibility of the purchaser.
8. Any controversy must be presented to the Reggio Emilia Law Court.

## CONFORMITY DECLARATION

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1. ARAG s.r.l. guarantees this apparatus for a period of 360 days (1 year) from the date of

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Only use genuine ARAG accessories or spare parts to make sure manufacturer guaranteed safety conditions are maintained in time. Always refer to the internet address [www.aragnet.com](http://www.aragnet.com)

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