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This manual is an integral part of the equipment to which it refers and must accompany the equipment in case of sale or change of ownership. Keep it for any future reference; ARAG reserves the right to modify product specifications and instructions at any moment and without notice.

INTRODUCTION

Product description

VISIO is a very compact and accurate top-notch multifunction display, able to display any kind of information concerning agricultural treatments.

Operator can select the required function via software.

It can display several types of values, which change according to set operating mode and type of connected sensors.

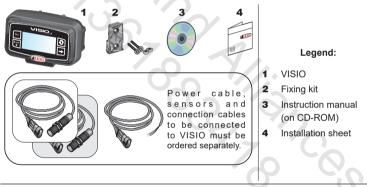
INTENDED USE

This device is designed to work on agricultural machinery for spraying and crop spraying applications.

The machine is designed and built in compliance with EN ISO 14982 standard (Electromagnetic compatibility - Forestry and farming machines), harmonized with 2014/30/UE Directive.

CONTENT OF THE PACKAGE

The table below indicates the components that you will find in the VISIO package:



PRECAUTIONS

- \triangle
- Do not aim water jets at the equipment.
- Do not use solvents or fuel to clean the case outer surface.
- · Do not clean equipment with direct water jets.
- Comply with the specified power voltage (12 VDC).
- In case of voltaic arc welding, remove connectors from VISIO and disconnect the power cables.
- Only use ARAG genuine spare parts and accessories.

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



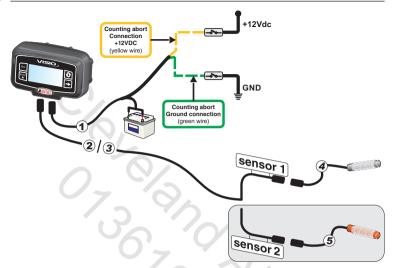
Sensors and power supply must be installed and connected by qualified personnel. VISIO must be exclusively connected to ARAG equipment. WHEN ARC WELDING IS REQUIRED, MAKE SURE THAT EQUIPMENT POWER IS SWITCHED OFF; DISCONNECT POWER CABLES IF NEEDED.



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.

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

ASSEMBLY DIAGRAMS



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.

CONTROLS IN THE MENU

First switching on



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

Press 🕑 to scroll through items, 🗆 K 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.

Controls in the menu

B

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.

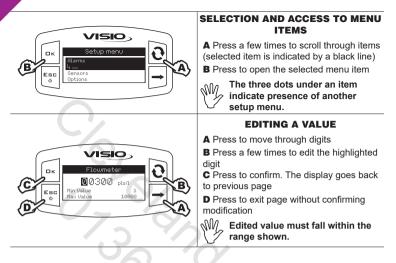
SWITCHING OFF

A Press for 2 seconds

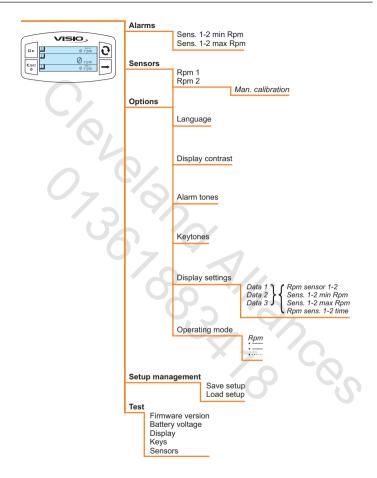
ACCESS TO SETUP MENU

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





MENU STRUCTURE



RPM Alarms

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

Alorms Esc 6 Bers. 1 mix rpm Sers. 2 mix rpm Sers. 2 mix rpm Sers. 2 mix rpm	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 □ K to edit the selected menu item.
	This menu allows setting two different sensors (if available).
Q	In case only one sensor is used, use items related to sensor 1 to perform the correct settings.
VISIO	2) To activate the alarm, press $\textcircled{2}$ and
CK Sens. 1 min rpm OFF 0 Min Value 9999	→ 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.
C C C C C C C C C C C C C C	 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.

Sensors

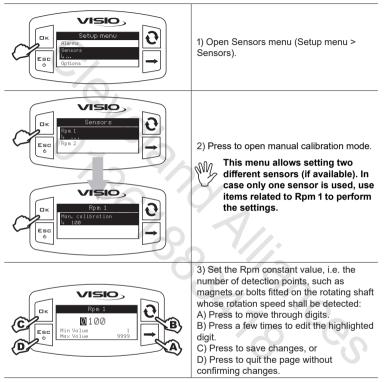


1) Open Sensors menu (Setup menu > Sensors).

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

Sensors > Manual calibration

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.



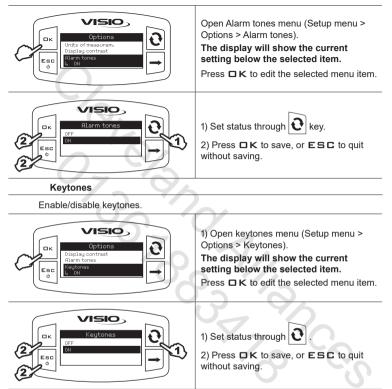
Language

Set the desired language.

Crisco Crisco Esc Collar Colla	Open language setting menu (Setup menu > Options > Language). The display will show the current setting below the selected item. Press □K to select the language.
Esc 2 2 2 2 2 2 2 2 2 2 2 2 2	 Select a language through O. Press OK to save, or ESC to quit without saving.
Display contrast	
Set display contrast.	
Crk Options Language Lan	Open display contrast menu (Setup menu > Options > Display contrast). The display will show the current setting below the selected item. Press □ K to edit the selected menu item.
CK Display contrast Esc 0 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1	 Set a value through O. Every time you press it, value will increase by 5% up to 100%. Use → key to decrease value by 5%. Press □K to save, or ESC to quit without saving.



Enable/disable the alarm tones.



Display settings

1	Ø rpm
1	Ø.rpm
	Ørpm

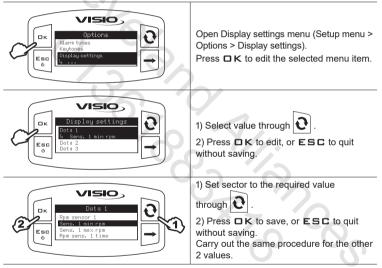
The main page shows the display divided into three horizontal parts, which can be separately reset (according to the value). Every sector can be assigned the desired value:

- Rpm sensor 1-2 = Rpm live reading;

- Min. Rpm sens. 1-2 = minimum detected Rpm;

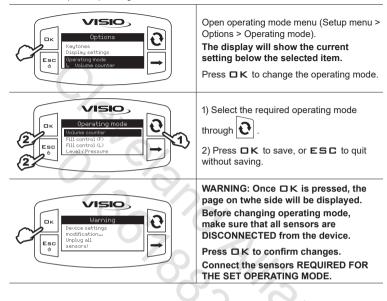
- Max. Rpm sens. 1-2 = maximum detected Rpm;

- Rpm sens. 1-2 time = value, measured in seconds, during which VISIO has detected a movement different from 0.



Operating mode

Set required operating mode.



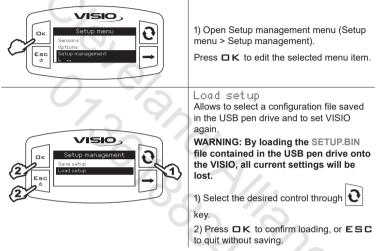
Setup management

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.



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 □K 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 \mathbf{Q}



key.

2) Press **D**K to confirm saving, or **E**SC to quit without saving.

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



Test menu

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

- Firmware version:

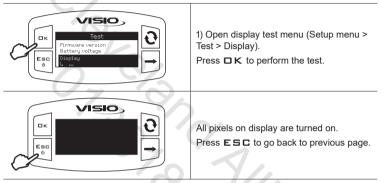
the display shows the firmware version installed.

- Battery voltage:

the display shows the power voltage of the device.

Display test

Display test checks the device display correct operation.



Keys test

Keys test checks the device keys correct operation.

C C C C C C C C C C C C C C C C C C C	Open keys test menu (Setup menu > Test > Keys). Press □ K to perform the test.
	1) Press any key and the corresponding display area will turn on. Press E S C 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

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



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

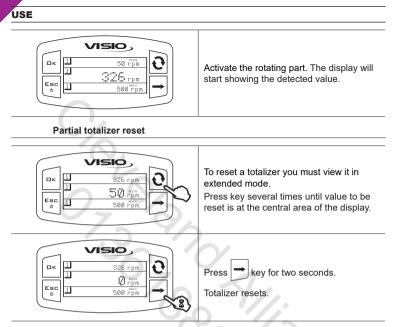
Press **D**K to perform the test.

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



2) Press ESC to quit.



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

Totalizers display maximum 4 digits.



MAINTENANCE / DIAGNOSTICS / REPAIRS

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

Troubleshooting

FAULT	CAUSE	REMEDY
VISIO is off or does not	No power supply	Check power cable connections
switch on	Device is OFF	Press the ON key
VISIO shows wrong data	Wrong setup	Check displayed data setup
viero chono mong data	Sensor fault	Contact the nearest
	VISIO fault	Assistance Center
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.



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			
	003/13 77000			

Setup menu						
	Data	Min.	Max.	Default	UoM	Notes
Sensor	Calibration	1.0	200.0	60.0	pls/l	
Rpm alarms	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"
Display	Contrast	0	100	50	%	
Options	Language	-	-	English	-	Available languages: Italiano, English, Español, Português, Français, Deutsch, Cesky, Polski, Русский, Magyar, ニオン.
	17					

GUARANTEE TERMS

- 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.
- 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;
- Repairs carried out under guarantee are guaranteed for one year (360 days) from the replacement or repair date.
- 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.
- 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

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



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



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