



Your privacy is very important for IdroMOP and to protect it in the best way, we provide these notes in which you will find information on the type of information collected online and on the various possibilities you have to intervene in the collection and use of such information on the site. This is a notice that is also made pursuant to Article 13 of Legislative Decree No. 196/2003 of the Code regarding the protection of personal data to those who interact with the IdroMOP Web services, accessible by electronic means starting from the address: www.idromop.com corresponding to the homepage of the official IdroMOP website. The information is provided only for the IdroMOP site owned by IdroMOP S.R.L. and not for other Web sites that may be consulted by the user through links. The information is also based on the Recommendation n. 2/2001 that the European authorities for the protection of personal data, gathered in the Group established by Article 29 of European Directive No. 95/46 / EC, adopted on May 17, 2001 to identify some minimum requirements for data collection personal online, and, in particular, the methods, timing and nature of the information that the data controllers must provide to users when they connect to web pages, regardless of the purpose of the connection. Following consultation of this site, data relating to identified or identifiable persons may be processed. The owner of the data processing is IdroMOP S.R.L. with headquarters in Viale Del Lavoro 5 / B (36050 Sovizzo - Vicenza - Italy) VAT IT 03951780240. The treatments connected to the Web services take place at the aforementioned IdroMOP office and are only handled by technical staff in charge of processing, or any persons in charge of occasional maintenance operations. No data deriving from the web service is communicated or disseminated. The personal data provided by users who request dispatch of informative material are used only to perform the service or provision requested. Personal data are processed with automated tools for the time strictly necessary to achieve the purposes for which they were collected. Specific security measures are observed to prevent data loss, illicit or incorrect use and unauthorized access. The subjects to whom the personal data refer have the right at any time to obtain confirmation of the existence or otherwise of the same data and to know its content and origin, verify its accuracy or request its integration, or correction (art.7 of Legislative Decree No. 196/2003). Pursuant to the same article, one has the right to request the cancellation or blocking of data processed in violation of the law, rather than to oppose in any case, for legitimate reasons, to their processing. Anyone who has doubts concerning compliance with the privacy policy adopted by IdroMOP, the accuracy of your personal data or the use of the information collected can contact us by e-mail at info@idromop.com.

IrriMOP

User Manual

v4.03.01



The information, the descriptions and the illustrations in this Manual reflect the current version.

The maker reserves the right to make at any time changes to the equipment for technical or commercial reasons.

These changes do not require that the maker intervene on the equipment sold before the release of this current version.

Any additions that the maker will consider necessary will need to be attached to this document and considered to be a part of it.

This document contains technical information that cannot be disclosed or released to third parties without prior written permission of the maker.

The information contained in this Manual is intended for professional use.

The maker recommends the users to read carefully this Manual before using the equipment.



This product is an electronic instrument and therefore shouldn't be considered a machine. Consequently the product isn't subject to the requirements of the CEE directive 89/392 (Directive). Therefore we assert that this instrument is used as a component part of a machine and it cannot be switched on if the machine doesn't meet the requirements of the Machinery Directive.

The identification marking of the instrument doesn't make void the responsibility of the customer to respect the law referring to the own finished product.

WARRANTY

- The warranty is valid one year from the date of delivery of the equipment and covers all faults of the materials
- The warranty doesn't include the transport costs and the receiver supports the transport risks
- The warranty concerns only the reparation or the free of charge replacement of the defective piece
- The warranty doesn't cover any damage due to costs of labour, transportation, direct or indirect accidents, loss of earnings related to the crops
- Possible damages caused to persons or things are not covered by the warranty

WARRANTY EXPIRATION

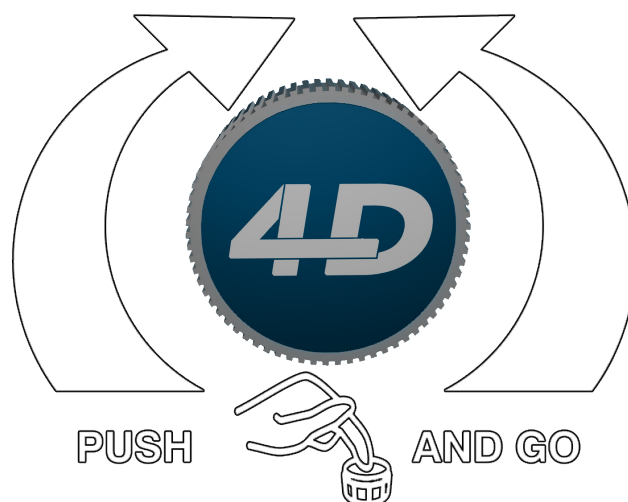
- In case you don't respect the electrical characteristics of the equipment
- In case you use the equipment inadequately, for applications that don't suit the purpose of the appliance
- In case you don't follow carefully the instructions explained in this manual
- In case of wrong use, faulty maintenance or installation errors
- In case you remove or modify the protective parts of the equipment

SAFETY AND MAINTENANCE

- The equipment must be supplied with continuous electric tension between 10 Vdc and 30 Vdc
- Always check the polarity of the power source
- In case of personalization of the cables of the engine supplied with the equipment, you have to respect strictly the positions of the electric signals provided on the connector and the dimensions of the electrical wiring
- The warranty does not cover any damage compensation due to labor costs, transportation, direct or indirect accidents, loss of earnings on the harvest
- Avoid exposing the electronic unit to environmental conditions that favour the inflow of corrosive agents or liquids in general
- Protect the display carefully and keep away as much as possible from direct exposure to the sun
- Pay attention to the mechanical operations carried out in front of the equipment in order to prevent accidental damage to the front knob
- Don't attempt any maintenance procedure not described in the present documentation
- In case of moving or relocating the equipment, proceed with extreme caution
- In case of installation with remote control, make sure that the whole machine is inaccessible to persons or things during the operation
- At the end of the season take care that the equipment is kept in a dry place, protected from all external agents such as rain and ice. Also make sure that you disconnect the power cords

Panel features	3
Knob	3
On/Off Button	4
Start Button	5
Stop Button	6
Increase Button (+)	7
Decrease Button (-)	8
Work's pages	9
Main	9
Valves (if enabled)	10
Engine (only hydraulic or integrated machine)	11
Hour meter	12
Diagnostics	13
Setups	14
Operator	14
Advanced (Protected)	15 - 16
Manufacturer (Protected)	17 - 21
Settings	22

Wizard start (Manual)	23
Meters rolled out	23
Pauses and early stop	24
Summary	25
Wizard start (Automatic)	26
Meters rolled out	26
Pauses and early stop	27
Start irrigation	28
Program	29
Time of arrival	30
Summary	31
Error types	32
Electrical connections	33
Panel size	34



The knob can be rotated on 2 ways: clockwise and counterclockwise.

The main function of the knob is to move the cursor, ie the area (flashing or fixed) highlighted in black; the clockwise rotation allows you to move the cursor to the right, and the counterclockwise moves the cursor to the left.

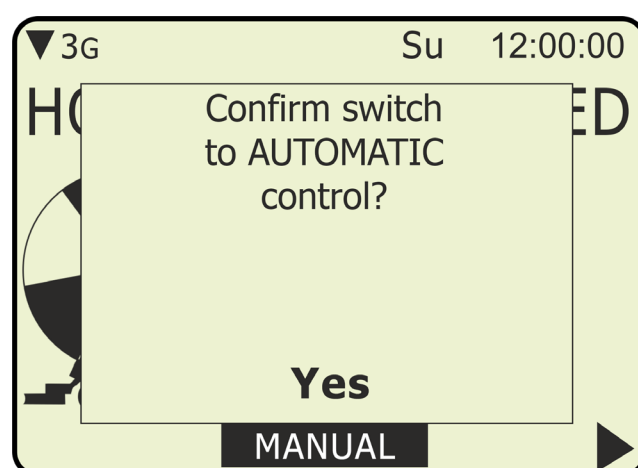
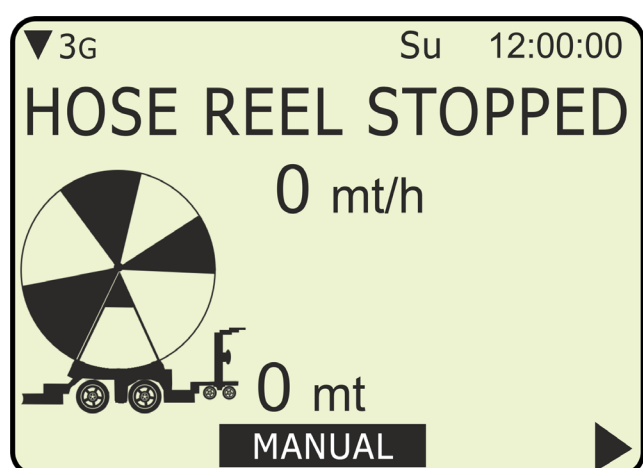
If the current field is editable, briefly pressing the knob, you can change the parameter value.

Then confirm the change by briefly pressing the knob.

This procedure is valid for all editable fields in the configuration pages.

In the **EDIT** section of the wizard start, rotate the knob to select the desired value and quickly press the knob to make it highlight, now turn the knob to the right to increase the value or to the left to decrease it; press again on the knob to complete the modification and finally hold the knob pressed to exit the parameter modification.

On the main work page, the **MANUAL/AUTOMATIC** field allows you to select the operating mode with a prolonged pressure of the knob.



The knob **NEVER** act directly on the **START** or **STOP** of the work cycle: press the **START** button to start a new irrigation cycle or to move the hose reel machine with the engine starting; the other way around press the **STOP** button to end the irrigation cycle in progress or stop the engine.

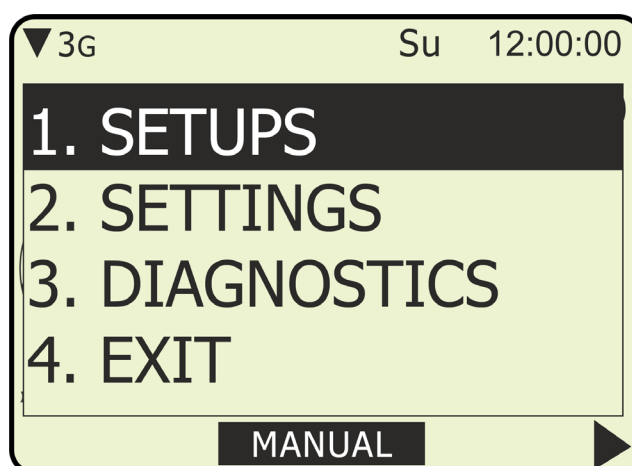


With the unit switched off, press the ON/OFF button to turn it on.

Wait for the system initialization signaled by the load bar;

A beep will alert you to the completion of the boot procedure with the ability to access the job functions. To turn off the control unit, press and hold the ON/OFF button for more than 3 seconds until you see the closing system window "SHUTDOWN SYSTEM". During the job functions, press the ON/OFF button to open or close the configuration menus:

- **SETUPS OPERATOR/MANUFACTURER**
- **SYSTEM SETTINGS**
- **DIAGNOSTICS**
- **EXIT THE MENU**



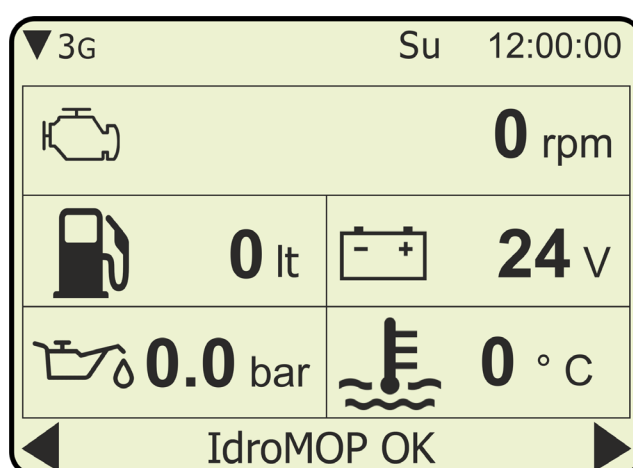


When the machine is in position and with the status "**HOSE REEL READY**", press the button START to start the wizard start (pag. 26/29) and then startup the irrigation procedure.

In the handling procedure (accessible only with hose reel machine with hydraulic control and single-cylinder engine control enabled), press this button to start the engine.

In combined with the **IdroMOP v4**, from the **ENGINE** page, pressing this button starts the pump unit in **MANUAL/AUTOMATIC** (varies depending on the selected mode).

If on the bottom there is the written **IdroMOP OK** then the command is accepted from IdroMOP, otherwise, the device can be busy on the configuration step or with automatic or manual procedures already in progress.



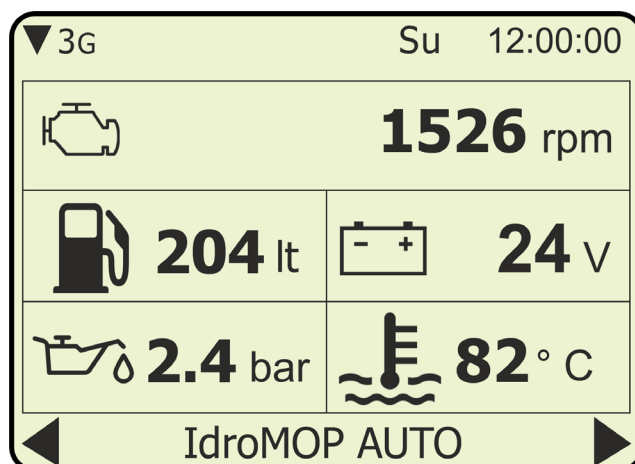
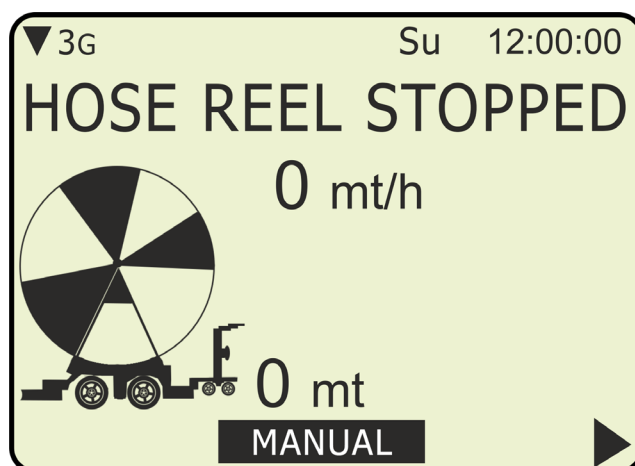


During the irrigation or irrigation start-up procedure, press the STOP button to end the work in progress and wait for the status of “**MACHINE STOPPED**”.

Press this button inside the wizard start, to exit and then return to the previous page.

In the movement procedure, press this button to stop the engine.

In combined with the **IdroMOP v4**, from the **ENGINE** page, if on the bottom is written **IdroMOP MAN** or **IdroMOP AUTO** and the engine is working, pressing this button stops the engine.





In **AUTOMATIC** this button allows you to access the menu for changing speed settings, such as meters/hour, arrival time and if enabled, rainfall.

In **MANUAL** the pressure of this button acts directly on the bypass valve allowing the increase of the return speed.

In combination with the **IdroMOP v4** device, from the **ENGINE** page with the engine working, pressing this button will increase the engine speed.

Furthermore, if the button is pressed within the wizard start page - SUMMARY, it will move the page text upwards.

SUMMARY

Early stop (mt)

0

Z1 (mt/h)

**

Z2 (mt/h)

**

Z3 (mt/h)

**

◀

START

SET SPEED BY:

☒ Meters/hour

25

☐ Deadline time

Fr 17:23



In **AUTOMATIC** this button allows you to access the menu for changing speed settings, such as meters/hour, arrival time and if enabled, rainfall.

In **MANUAL** the pressure of this button acts directly on the bypass valve allowing the decrease of the return speed.

In combination with the **IdroMOP v4** device, from the **ENGINE** page with the engine working, pressing this button will decrease the engine speed.

Furthermore, if the button is pressed within the wizard start page - SUMMARY, it will move the page text downwards.

SUMMARY

Early stop (mt)

0

Z1 (mt/h)

**

Z2 (mt/h)

**

Z3 (mt/h)

**

◀

START

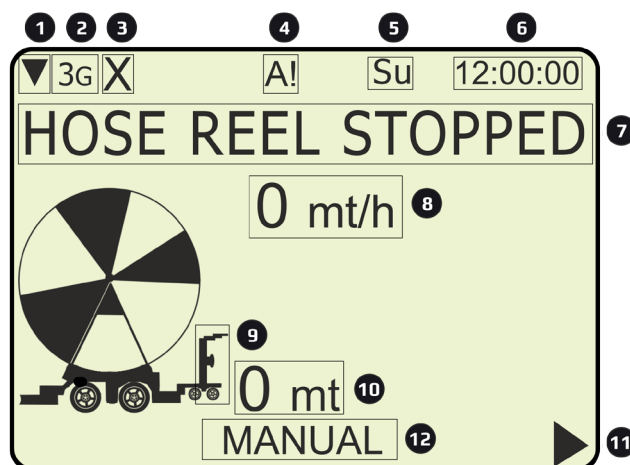
SET SPEED BY:

☒ Meters/hour

25

☐ Deadline time

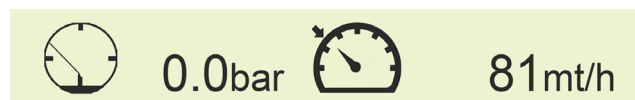
Fr 17:23



1. It raises the signal level of the GSM network.
2. The **2G** or **3G** symbol indicates that the data connection.
3. The **X** field represents the connection status to the server ID4 Irrigation for remote control:
absent communication with the server 
device in connection with the server 

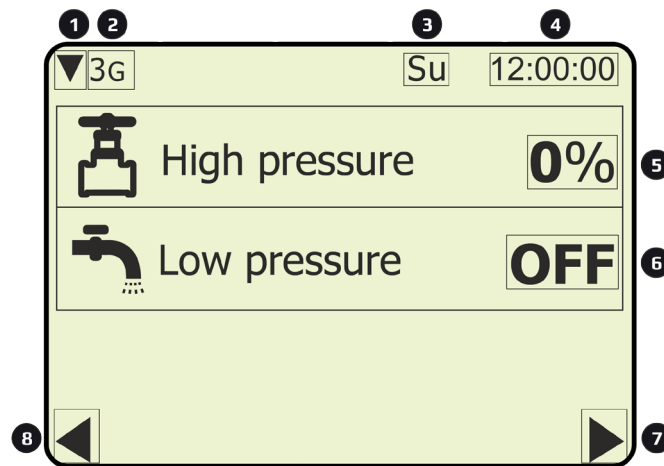
4. Presence of alarm condition.
5. Abbreviation day of the week, in this case, **Su** stands for **Sunday**.
6. Current time expressed in **HH:MM:SS**. (Hours:Minutes:Seconds)
7. Is displayed the machine status. It can be:
 - **HOSE REEL STOPPED**, no irrigation in progress and wrapped pipe.
 - **PULL OUT PIPE**, unrolling the pipe in progress.
 - **HOSE REEL READY**, pipe unrolled and machine ready for the irrigation cycle.
 - **END OF IRRIGATION**, irrigation finished.

To **HOSE REEL READY**, after the **START**, has been successfully executed, the machine status will no longer be available and will be replaced by working parameters such as: water pressure, set return speed and irrigation time.

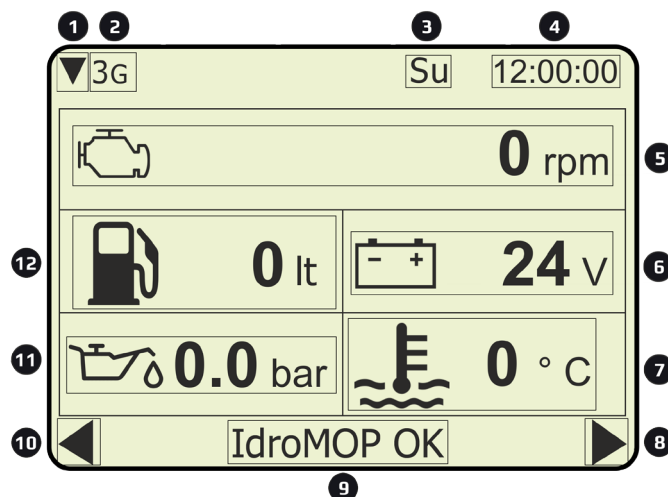


This symbol appears when the return speed adjustment system entered the set tolerance.

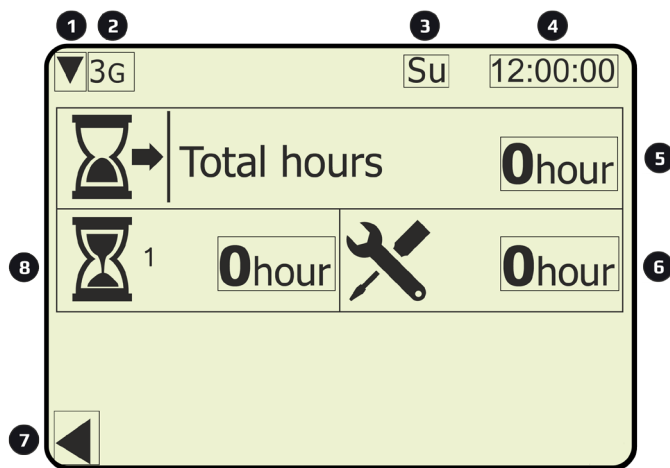
8. The current return speed expressed in **meters/hour**.
9. Irrigation state.
10. Length of pipe to be recovered.
11. The arrow at the bottom of the page indicates that there is a next page. If the arrow is at the bottom left it means there is a previous page available.
12. Operating mode. In this case it is **MANUAL** but with pressure it is possible to change it in **AUTOMATIC** at any time.



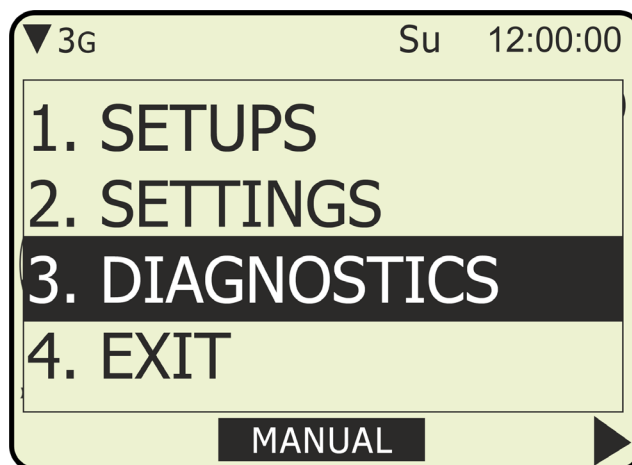
1. It raises the signal level of the GSM network.
2. The **2G** or **3G** symbol indicates that the data connection.
3. Abbreviation day of the week, in this case, **Su** stands for **Sunday**.
4. Current time expressed in **HH:MM:SS**. (Hours:Minutes:Seconds)
5. Indicates the percentage of opening of the high pressure valve.
If it is not active, **OFF** is displayed.
- 5a. If in **MANUAL** mode and pressing the **increase** button opens, otherwise with the **decrease** the valve closes.
6. Indicates the percentage of opening of the high pressure valve.
If it is not active, **OFF** is displayed.
- 6a. If in **MANUAL** mode and pressing the **increase** button opens, otherwise with the **decrease** the valve closes.
7. It indicates that there is a next page.
8. It indicates that there is a back page.



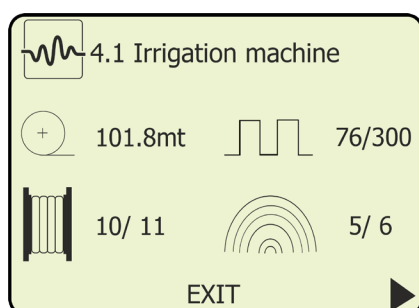
1. It raises the signal level of the GSM network.
2. The **2G** or **3G** symbol indicates that the data connection.
3. Abbreviation day of the week, in this case, **Su** stands for **Sunday**.
4. Current time expressed in **HH:MM:SS**. (Hours:Minutes:Seconds)
5. Engine tachometer.
6. Battery voltage.
7. Engine water temperature.
8. It indicates that there is a next page.
9. The current status of communication with the IdroMOP v4 device.
10. It indicates that there is a back page.
11. Engine oil pressure.
12. Liters inside the tank.



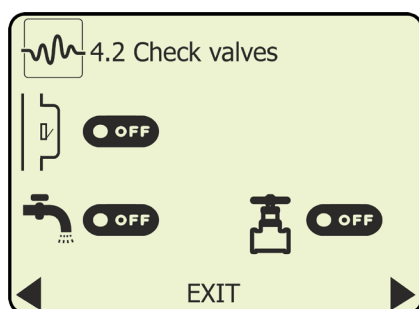
1. It raises the signal level of the GSM network.
2. The **2G** or **3G** symbol indicates that the data connection.
3. Abbreviation day of the week, in this case, **Su** stands for **Sunday**.
4. Current time expressed in **HH:MM:SS**. (Hours:Minutes:Seconds)
5. Total hour-meter.
6. Maintenance.
7. It indicates that there is a back page.
8. Partial hour-meter.



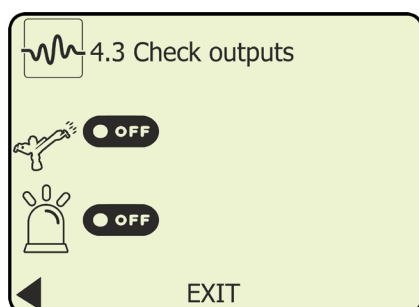
In the diagnostics section it's possible to verify the correct settings of the machine including the development of the wrapped pipe and the functionality of the control inputs and outputs.



The first page shows information on the development of the wrapped pipe and the speed pulse counters, the number of layers and the coils. If the machine settings that are tube diameter, drum internal diameter, lap impulses and tube length are correct, the number of layers and coils must be equal with the actual situation of the machine.



Through the ON / OFF switches it's possible to activate or deactivate the control outputs of the main valves that are, bypass, low pressure valve or exhaust valve and high pressure valve or inlet valve.



Through the ON / OFF switches it's possible to activate or deactivate the management of the auxiliary outputs that control the second sprinkler or auxiliary sprinkler and the flashing.

1.1 OPERATOR
U01 Group ID

1

SAVE & EXIT

U01: This assign a numerical code to the hose reel machine; is preferable leave the value at default (ID = 1).

UOM: /

Default: 1

Allowed values: 1 / 99

1.1 OPERATOR
U02 Exclude detecting water pressure

Yes

SAVE & EXIT

U02: Normally this parameter must be left on the "No" option in way of enabling the control of the pressure thresholds and activation of relative alarms in case of unauthorized and/or anomalous water values. In some cases, such as the spread of urea, it is preferable to deactivate the water pressure controls by setting this parameter to the option "Yes".

UOM: /

Default: No

Allowed values: No / Yes

1.1 OPERATOR
U03 Minimum system pressure

3.0 bar

SAVE & EXIT

U03: It's important to set this system pressure threshold above which it is allowed to start the return phase of the sprinkler. Also this threshold is the minimum pressure, that if it go below the value, the device interprets the condition of lack and/or insufficiency of water in the system. In this case, the device will remain in standby for exceeding the threshold. Also during the return of the sprinkler, if the pressure should go down under the minimum system pressure, the device will suspend irrigation pending the return of water to the system.

UOM: *bar*

Default: 3.0

Allowed values: 0.0 / 10.0

1.1 OPERATOR
U04 Positive/negative tolerance

4 mt/h

SAVE & EXIT

U04: Tolerance band around the set return speed value.

If for some problems the regulation system could not keep the speed within this band (+/-), the irrigation process will be finalized.

UOM: *meters/hour*

Default: 4

Allowed values: 2 / 10

1.1 OPERATOR
U10 Key code

0000

SAVE & EXIT

U10: This is the user code. Once inserted, it is essential to remember the code as, without it, it will no longer be possible to access the work pages. To remove this code set it to 0000.

UOM: /

Default: 0000

Allowed values: 0000 / 9999

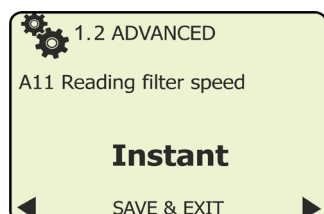


PRIVATE CODE FOR THE ADVANCED SETUP - 0123 -

THE USE OF THIS SECTION IS DEDICATED FOR EXPERIENCED USERS OR TECHNICIANS

THE MODIFICATION OF THESE PARAMETERS CAN COMPROMISE
MACHINE OPERATIONS

RECOMMENDED BEFORE EDIT THESE PARAMETERS
TO CONSULT THE MANUFACTURER



A11: In the presence of a large number of rpm (over 400 pulses/rev) it is preferable to set a speed filter different from **Instant**.

With a lower pulse value, keep the default value **Instant**.

UOM: /

Default: Instant

Allowed values: Instant / Every 2/4/8 pulses

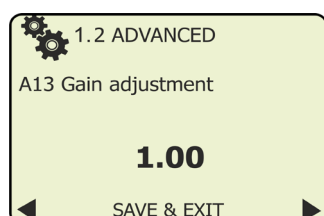


A12: This parameter determines the acceleration and deceleration curve used for speed regulation. The value is equal to the desired time in order to pass the minimum speed of 5 meters/hour to the maximum speed set in parameter A15. Unequal values may compromise speed regulation.

UOM: *seconds*

Default: 300

Allowed values: 60 / 600

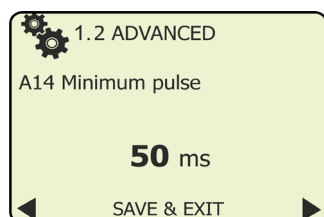


A13: Speed control reactivity index. More is higher this value, more faster the controller will recover the speed error. If you set extreme values you can get unwanted regulation effects, such as:
incapacity of speed regulator to reach the return speed set and/or oscillations around the value of return speed.

UOM: /

Default: 1.00

Allowed values: 0.10 / 2.0



A14: It's a crucial parameter for the end regulation of the return speed.

A too high value could cause the speed control to oscillate, while a too low value would slow to the limit to not allow it adjustment around the target value. Normally this parameter must be between 40ms and 100ms and depends on the type and timing of response of the bypass valve.

UOM: *milliseconds*

Default: 50

Allowed values: 20 / 2000



PRIVATE CODE FOR THE ADVANCED SETUP - 0123 -

THE USE OF THIS SECTION IS DEDICATED FOR EXPERIENCED USERS OR TECHNICIANS

THE MODIFICATION OF THESE PARAMETERS CAN COMPROMISE
MACHINE OPERATIONS

RECOMMENDED BEFORE EDIT THESE PARAMETERS
TO CONSULT THE MANUFACTURER

1.2 ADVANCED
A15 Maximum return speed

150 mt/h

SAVE & EXIT

A15: This parameter indicates the maximum return speed.

UOM: *meters/hour*

Default: 150

Allowed values: 60 / 300

1.2 ADVANCED
A16 Correction tube lenght

1.000

SAVE & EXIT

A16: This parameter is crucial for a correct pipe measurement.

If a discrepancy between the measurement on the pipe and the value measured by the equipment is noticed during the irrigation processes, use this factor as a percentage value. **If hose reel machine is set to turbine or integrated, the next parameter A17 will not be displayed.**

UOM: /

Default: 1.000

Allowed values: 0.100 / 2.000

1.2 ADVANCED
A17 Maximum engine speed

3600 rpm

SAVE & EXIT

A17: Indicates the maximum control limit allowed for the single-cylinder engine above which it will be stopped with deceleration.

UOM: *rpm*

Default: 3600

Allowed values: 1200 / 3600



THE USE OF THIS SECTION IS DEDICATED EXCLUSIVELY TO MANUFACTURES AND TECHNICAL EXPERTS

2.1 MACHINE
M01 Type
hose reel machine

Hydraulic

SAVE & EXIT

M01: This parameter means the type of hose reel machine.

In particular, the machine with controlled movement by oil system and single-cylinder engine is considered **Hydraulic** machine; in the case of movement controlled simply by a water system, the machine is considered a **Turbine** type; if a motor pump is present, the machine is considered as an **Integrated** type.

UOM: /

Default: Turbine

Allowed values: Turbine / Hydraulic / Integrated

2.1 MACHINE
M02 Polarity contact
emergency

N.O.

SAVE & EXIT

M02: Polarity of the contact of a possible emergency button. If the contact is normally closed, this parameter must be set to N.C. otherwise N.O. If no emergency button is provided, leave the parameter setting to N.O.

UOM: /

Default: N.O.

Allowed values: N.O. / N.C.

2.1 MACHINE
M03 Polarity sensor
speed

PNP

SAVE & EXIT

M03: This parameter must normally be set to PNP, as the type of speed sensor supplied by the manufacturer is always PNP.

UOM: /

Default: PNP

Allowed values: PNP / NPN

2.1 MACHINE
M04 Speed control
for rainfall

Disabled

SAVE & EXIT

M04: This parameter allows you to enable or disable the return speed setting based on the desired rainfall index.

If enabled in the wizard start, the page relating to the settings of the nozzle, sprayer and water pressure on the sprinkler will be displayed.

UOM: /

Default: Disabled

Allowed values: Disabled / Enabled



THE USE OF THIS SECTION IS DEDICATED EXCLUSIVELY TO MANUFACTURES AND TECHNICAL EXPERTS

2.1 MACHINE
M05 Diameter tube

150 mm

SAVE & EXIT

M05: Setting the diameter of the pipe.

UOM: *millimeters*

Default: 150

Allowed values: 60 / 200

2.1 MACHINE
M06 Number of turns

11

SAVE & EXIT

M06: Mean the number of turns available on the machine drum.

It's easily calculated by dividing the width of the drum of the machine with the diameter of the pipe, without the decimal figures.

UOM: /

Default: 11

Allowed values: 7 / 12

2.1 MACHINE
M07 Pulses Number

300

SAVE & EXIT

M07: This parameter must be set according to the number of pulses read by the speed sensor during a full rotation of the drum.

UOM: /

Default: 300

Allowed values: 20 / 2000

2.1 MACHINE
M08 Lenght tube

500 mt

SAVE & EXIT

M08: This parameter depends on the total length of the pipe.

UOM: *meters*

Default: 500

Allowed values: 250 / 999

2.1 MACHINE
M09 Inside diameter drum

1800 mm

SAVE & EXIT

M09: This parameter depends on the internal diameter of the drum.

UOM: *millimeters*

Default: 1800

Allowed values: 1000 / 3000



THE USE OF THIS SECTION IS DEDICATED EXCLUSIVELY TO MANUFACTURES AND TECHNICAL EXPERTS

2.2 ENGINE
M10 Conversion ratio
engine speed

0.330

SAVE & EXIT

M10: Set this parameter in order to obtain the correct number of revolutions acquired by the panel. To obtain the new engine rpm conversion ratio, multiply the engine rpm read with the reference tool to the set conversion ratio (0.330 by default); the result obtained must be divided by the number of laps read by the panel.

This parameter can be set only with Hydraulic machine.

UOM: /

Default: 0.330

Allowed values: 0.100 / 2.000

2.2 ENGINE
M11 Threshold high
engine running

450 rpm

SAVE & EXIT

M11: It's a value expressed in rpm which indicates the threshold of cut-off of the starter motor.

This parameter can be set only with Hydraulic machine.

UOM: rpm

Default: 450

Allowed values: 180 / 750

2.2 ENGINE
M12 Capacity tank

600 lt

SAVE & EXIT

M12: This parameter depends on the total capacity of the tank.

This parameter can be set only with Hydraulic machine.

UOM: liters

Default: 600

Allowed values: 0 / 1500

2.2 ENGINE
M13 Delay engine stop from
back end condition

0 sec

SAVE & EXIT

M13: In some cases, to allow the complete return of the truck in the hose reel machine, it's necessary to insert a delay in stopping the engine after the end of return condition.

This parameter can be set only with Hydraulic machine.

UOM: seconds

Default: 0

Allowed values: 0 / 59



THE USE OF THIS SECTION IS DEDICATED EXCLUSIVELY TO MANUFACTURES AND TECHNICAL EXPERTS

2.3 VALVES
M14 Bypass valve control

Motor 1

SAVE & EXIT

M14: Select the control output for speed control management.

UOM: /

Default: Motor 1

Allowed values: CAN BUS / Motor 1

2.3 VALVES
M15 Valve opening time bypass

30 sec

SAVE & EXIT

M15: Set the correct opening time of the bypass valve.

UOM: *seconds*

Default: 30

Allowed values: 2 / 240

2.3 VALVES
M16 Valve control type high pressure

CAN BUS

SAVE & EXIT

M16: Select the control output for opening and closing the inlet valve or high pressure valve.

UOM: /

Default: Absent

Allowed values: Absent / Motor 1 / CAN BUS

2.3 VALVES
M17 Valve opening time high pressure

60 sec

SAVE & EXIT

M17: Set the correct opening time of the inlet valve or high pressure valve.

UOM: *seconds*

Default: 60

Allowed values: 0 / 240

2.3 VALVES
M18 Control valve low pressure

Motor 2

SAVE & EXIT

M18: Select the control output for opening and closing the discharge valve or low pressure valve.

UOM: /

Default: Absent

Allowed values: Absent / Motor 2



THE USE OF THIS SECTION IS DEDICATED EXCLUSIVELY TO MANUFACTURES AND TECHNICAL EXPERTS

2.3 VALVES
M19 Valve opening time
low pressure

12 sec

SAVE & EXIT

M19: Set the correct opening time of the exhaust valve or low pressure valve.

UOM: *seconds*

Default: 12

Allowed values: 0 / 240

2.3 VALVES
M20 Auxiliary jet
control

Unavailable

SAVE & EXIT

M20: This parameter enables the management of the auxiliary sprinkler or second sprinkler.

UOM: /

Default: Unavailable

Allowed values: Unavailable / Enabled

3. SETTINGS
S01 Texts language

English

SAVE & EXIT

S01: Select and set the language of the IrriMOP panel.

Languages: Italian / English / French / Spanish / Deutsch / Hungarian

3. SETTINGS
S02 Year

2017

SAVE & EXIT

S02: Select and set the current year

3. SETTINGS
S03 Weekday

Sunday

SAVE & EXIT

S03: Select and set the current weekly day

3. SETTINGS
S04 Date

01/01

SAVE & EXIT

S04: Select and set the month and the current day. (Mm: dd)

3. SETTINGS
S05 Hour

12:00

SAVE & EXIT

S05: Select and set the current time

3. SETTINGS
S06 Backlight time

3 min

SAVE & EXIT

S06: Select and set the duration of the screen backlight. If the value is 0, the backlight will be always active.

3. SETTINGS
S07 Sense of rotation of the knob

Clockwise

SAVE & EXIT

S07: Select and set the rotation direction of the knob.

3. SETTINGS
S08 Unit of measurement of temperature

Celsius

SAVE & EXIT

S08: Select and set the temperature unit with which you want to work.

3. SETTINGS
S09 Device serial number

00000000

SAVE & EXIT

S09: Serial number is a unique code, 8-digit format to identify the device.

CONFIRMATION
METERS ROLLED OUT

Rolled out pipe (mt)18

EDITYES

During the irrigation start procedure by pressing the **START** button, the first page that will be displayed will be the confirmation of the unrolled meters. Press **YES** if the count of the unrolled meters is correct, otherwise or if you just want to change the meters, move with the knob and quickly press **EDIT**. (pag. 3 - KNOB)

METERS ROLLED OUT

☒ Rolled out pipe (mt)

18

METERS ROLLED OUT

☒ Rolled out pipe (mt)

205

CONFIRMATION
PAUSE AND EARLY STOP
Start pause 0:00
End pause 0:00
Early stop (mt) 0
◀ EDIT YES

Next, you will see confirmation of the pauses and the early stop. Press **YES** if the values of **init pause**, **end pause** and **early stop** are correct, otherwise, rotate the knob and quickly press **EDIT**. (pag. 3 - KNOB)

SET PAUSE & STOP
☒ Start pause **0:05**
☐ End pause **0:00**
☐ Early stop (mt) **0**

SUMMARY

▼

Start irrigation	**
Start pause 0:00 End 0:00	
Early stop (mt)	0
Z1 (mt/h)	**

◀
START

The summary page, which is the final page, proposes a general brief of the machine.

Press the **INCREASE** and **DECREASE** button to scroll the page and then display all the working parameters.

Inside this page there are these values:

- Start irrigation
- Start pause
- End pause
- Early stop
- Zone 1 (Program) meters/hour + meters
- Zone 2 (Program) meters/hour + meters
- Zone 3 (Program) meters/hour + meters
- Zone 4 (Program) meters/hour + meters
- Auxiliary sprinkler
- Valve
- Time of arrival

If **Start pause**, **End pause** and **Early stop** are correct press **START**, otherwise just go back and change the desired value.

CONFIRMATION
METERS ROLLED OUT

Rolled out pipe (mt)

18

EDIT

YES

During the irrigation start procedure by pressing the **START** button, the first page that will be displayed will be the confirmation of the unrolled meters. Press **YES** if the count of the unrolled meters is correct, otherwise or if you just want to change the meters, move with the knob and quickly press **EDIT**. (pag. 3 - KNOB)

METERS ROLLED OUT

☒ Rolled out pipe (mt)

18

METERS ROLLED OUT

☒ Rolled out pipe (mt)

205

CONFIRMATION
PAUSE AND EARLY STOP

Start pause 0:00
End pause 0:00
Early stop (mt) 0

◀ EDIT YES

Next, you will see confirmation of the pauses and the early stop. Press **YES** if the values of **init pause**, **end pause** and **early stop** are correct, otherwise, rotate the knob and quickly press **EDIT**. (pag. 3 - KNOB)

SET PAUSE & STOP

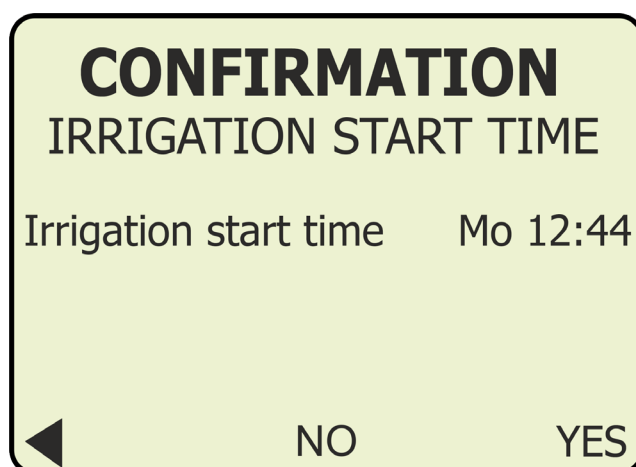
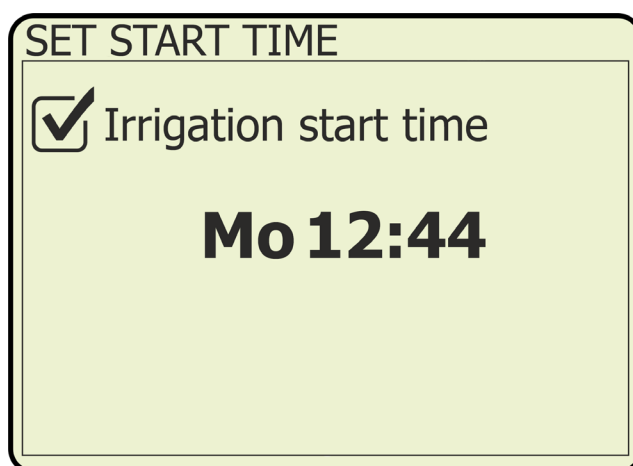
☒ Start pause **0:05**

☐ End pause **0:00**

☐ Early stop (mt) **0**



After confirming the pauses and the early stop, will be displayed the possibility of set a delayed irrigation start. Press **NO** if you don't want to set a delayed start, otherwise, rotate the knob and quickly press **EDIT**. (pag. 3 - KNOB)

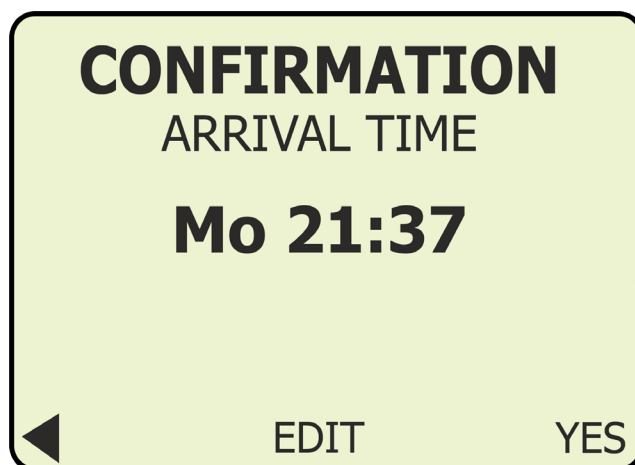


IRRIGATION PROGRAM				
	4	3	2	1
mt/h	0	0	0	0
mt	205	0	0	0
		EDIT		YES

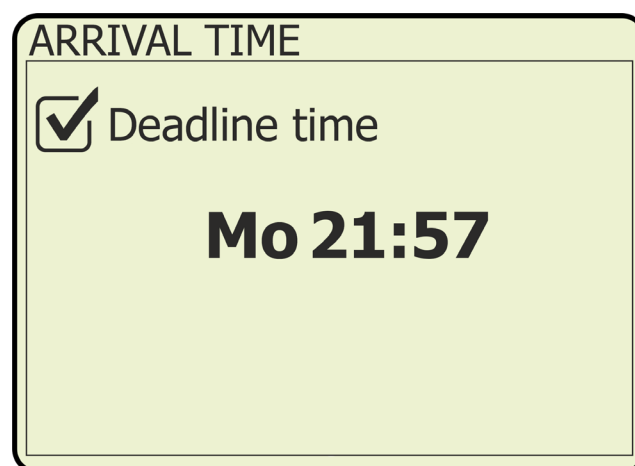
Next, you see the work program. In this section, you can set a specific type of work program. The program is divided into 4 zones; zone 4 is the nearest to the machine and can not be less than 20 meters, while the zone 1 is the most distant, where is positioned the sprinkler. Press **YES** if the values are all at 0 and you don't want to use a specific type of work program, otherwise, move with the knob and quickly press on **EDIT**. (pag. 3 - KNOB)

IRRIGATION PROGRAM				
	4	3	2	1
mt/h	20	0	0	0
mt	205	0	0	0
		EDIT		YES

IRRIGATION PROGRAM				
	4	3	2	1
mt/h	20	0	40	40
mt	145	0	30	30
		EDIT		YES



The last parameter that can be modified in the wizard start is the arrival time, which if modified, automatically recalculates the speed of Zone 4 (Program). Press **YES** if the calculated time is appropriate with the time and working features, otherwise, move with the knob and press quickly on **EDIT**. (pag. 3 - KNOB)



SUMMARY ▼

Start irrigation	**
Start pause 0:00 End 0:00	
Early stop (mt)	0
Z1 (mt/h)	**

◀
START

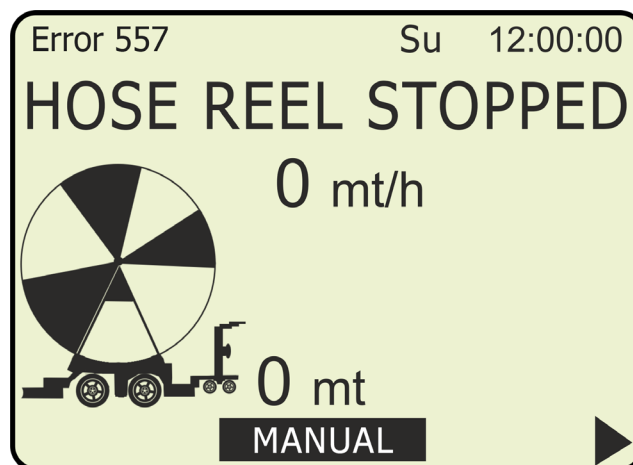
The summary page, which is the final page, proposes a general brief of the machine.

Press the **INCREASE** and **DECREASE** button to scroll the page and then display all the working parameters.

Inside this page there are these values:

- Start irrigation
- Start pause
- End pause
- Early stop
- Zone 1 (Program) meters/hour + meters
- Zone 2 (Program) meters/hour + meters
- Zone 3 (Program) meters/hour + meters
- Zone 4 (Program) meters/hour + meters
- Auxiliary sprinkler
- Valve
- Time of arrival

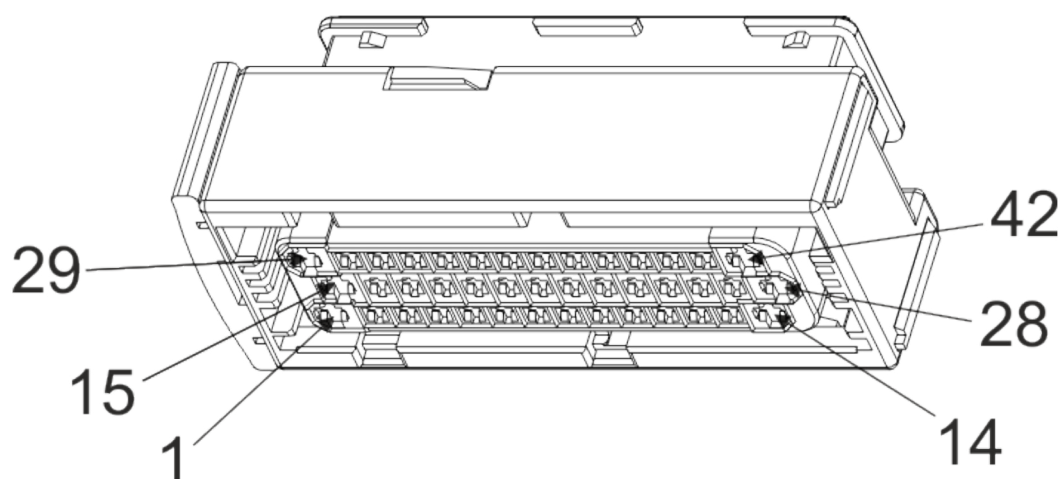
If **Start pause**, **End pause**, **Early stop**, **Start irrigation**, **Work program** and **Time of arrival** are correct press **START**, otherwise just go back and change the desired value.



The communication error with the SIM card is placed on the top left, instead of the GSM signal level and the code 2G/3G.

The following errors are followed by the description of why the given error occurred. When you receive a particular error, ex. 557, contact the manufacturer for detailed information on how to solve it.

- **Error 3:** Invalid SIM Card
- **Error 4:** Invalid operation
- **Error 10:** SIM Card not inserted
- **Error 13:** Faulty SIM Card
- **Error 30:** Network not available
- **Error 310:** SIM Card not inserted
- **Error 315:** Faulty SIM Card
- **Error 331:** Network not available
- **Error 552:** Wrong connection mode
- **Error 553:** Connection to the server already active
- **Error 555:** Network connection failed
- **Error 556:** Connection setting to server failed
- **Error 557:** Socket configuration failed
- **Error 559:** Open communication channel to server failed
- **Error 560:** Server communication channel not available
- **Error 562:** Connection failed
- **Error 567:** Wrong APN
- **Error 568:** Wrong PDP
- **Error 569:** Service not working
- **Error 999:** Internal modem communication lost



1)	–	15)	15/54	29)	– Battery (31)
2)	–	16)	15/54	30)	–
3)	–	17)	15/54 water pressure	31)	AN fuel level
4)	AN water pressure	18)	15/54	32)	Ground sensors
5)	–	19)	15/54	33)	Ground sensors
6)	–	20)	15/54 Can bus	34)	Can bus ground
7)	IN rpm	21)	Can L	35)	Can H
8)	OUT valve HP/LP –	22)	–	36)	–
9)	OUT valve HP/LP +	23)	IN high temperature	37)	–
10)	OUT bypass engine –	24)	–	38)	IN low oil pressure
11)	OUT bypass engine +	25)	IN emergency	39)	IN reserve
12)	OUT solenoid valve (PNP)	26)	IN dynamo (D+)	40)	–
13)	OUT 2° sprinkler (PNP)	27)	DOUT Flashing (NPN)	41)	–
14)	OUT starting (50)	28)	+ Battery (30)	42)	–

Legenda

OUT : power output (max 8 A)

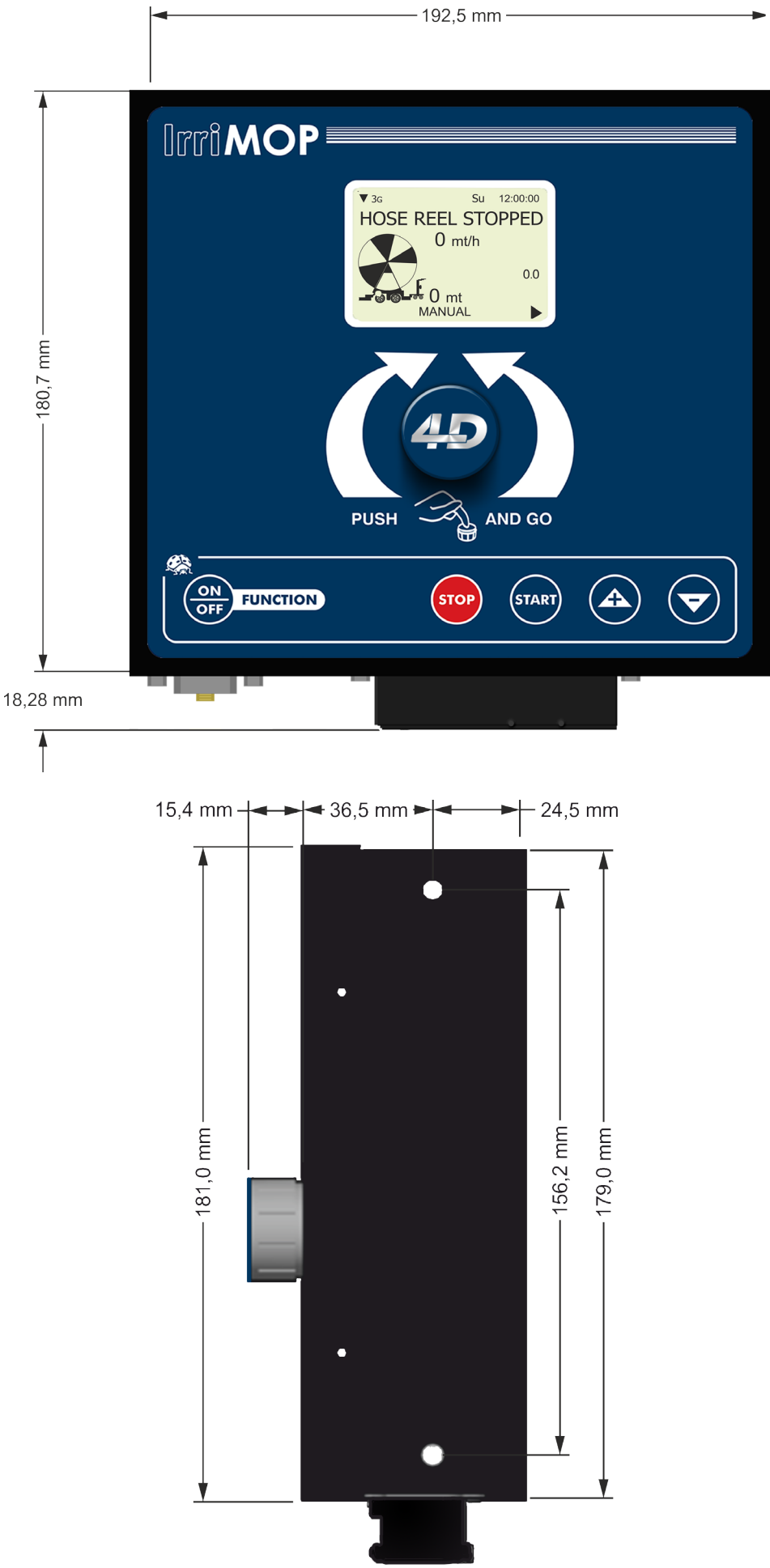
DOUT : digital output (max 0.5 A)

PNP : positive output

NPN : negative output

AN : analog input

IN : digital input





The irrigation
Future
on
Your hands