



Nortoft Electronic A/S

Sejrupsvej 38 · Sejrupsvej · DK-7323 Give · Denmark

Constant Rain 5

Direction for use 10 - 03 - 03.

Features:

Speed regulation.
Pre- and post-irrigation.
Battery Lo.Bat.
Charger on/off. Solar panel.
Speed sensor.
Stop sensor.
Motor 1, regulation motor.

Display

PRE-IRR.	—	—	SPEED SENS
POST-IRR.	—	30.0	MOTOR STOP
STOP SENS	—	—	CHARGER

If the display shows Lo. instead of speed, the battery voltage is lower than 11.8 V and the battery need to be charged.

Start: Constant no 5 = 1

When the "START" key is pressed, the by-pass valve closes (the turbine starts).

The turbine is automatic in start position if the roll has not turned for some minutes.

About 5 min depending of the speed

Stop: Constant no 5 = 1

When the magnet is removed from the stop sensor and post-irrigation is not chosen, nothing will happen, and the pipe is pulled in to mechanical stop

If post-irrigation is chosen, the turbine stops when the magnet is removed from the stop sensor, and after the post-irrigation time the turbine starts and the pipe is pulled in to the mechanical stop.

If the key "STOP" is pressed the turbine stops, but the turbine will slowly speed up again in depended of the position of the magnet at the stop sensor.

If post irrigation is not wanted, mounting of stop sensor is not necessary.



SPEED:

The speed is adjusted with the arrow keys, the speed first changes by steps of 0.1 m/h, then after 10 steps it changes by 1.0 m/h.

The speed can be changed at any time, even whilst the machine is running.

The speed cannot be changed whilst the motor are running.

It is shown in the display by a flashing bar to the right in the middle.

PRE-IRRIGATION:

Pre-irrigation can be activated by pressing the key "PRE ".

The time for pre-irrigation is calculated by the Constant Rain as 8 x the time for running 1 metre at the actual speed.

The constant "8 " (constant no. 1) can be changed, see programming.

If the pre-irrigation is on, the machine starts and run 1/2 metre, then it stops for the pre-irrigation time.

By pressing the key " START/RESET " the pre-irrigation is cancelled.

POST-IRRIGATION:

Post-irrigation can be activated by pressing the key " POST "

The time for post-irrigation is calculated by the Constant Rain as 8 x the time for running 1 metre at the actual speed.

The constant " 8 " (constant no. 2) can be changed, see programming.

The post-irrigation starts to count down when the magnet is removed from the stop sensor.

When the magnet is removed, the motor for speed regulation stops the turbine. After the post irrigation time the turbine starts and run to the mechanical stop.

By pressing the key " START" the post-irrigation is cancelled.

The magnet at the stop sensor should be in place, before activating the post-irrigation.

Start: If constant no. 5 = 2

The turbine can only start if the magnet activates the stop sensor.

When the "START" key is pressed, the by-pass valve closes (the turbine starts)

If the stop sensor is not activated by the magnet the motor does not turn.

Stop: If constant no. 5 = 2.

When the magnet is removed from the stop sensor, the turbine stops and remain stop as long as the magnet is removed.

If the key "Stop" is pressed the turbine stops, but the turbine will slowly speed up again as long as the magnet at the stopsensor is activated.



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There are different constants that can be set by the user.
These constants will be saved for years even if the battery is disconnected.

Programming procedure:

Press rapidly the "POST" key 3 times to gain access to change the constants.

By subsequently pressing on the "POST" key the constant no. will step forward.

With the arrow keys the constant value can be changed. The Constant Rain 5 goes back to normal and saves the constant by pressing the key "PRE".

If the key "PRE" is not pressed the Constant Rain 5 switches back to normal after 1 minute, and the changes of the constants are not saved.

The constants are saved, even if the battery is disconnected for a longer period.

Const no.	Note	Fact. Adj.	Min. Value	Max. Value	Description
1		8	1	15	Pre-irrigation
2		8	1	15	Post irrigation
3		100	-	-	Code to program constant 4 and 5 is (111).
4		63	40	160	Distance between pulses.
5		1	1	2	Stop system: 1 = Stop sensor mounted, post irrigation. 2 = Stop sensor mounted, the turbine stops when the magnet is removed from the stop sensor. No post irrigation possible

Constant Rain 5. Cable connection

1	+ Battery	Brown	12 V
2	- Battery	Blue	
3	+ Solar Panel	Brown	
4	- Solar Panel	Blue	
5	Motor		Speed Regulation
6	Motor		Speed Regulation
7	Speed sensor	Blue or Brown	
8	Speed sensor	Blue or Brown	
9	Stop sensor	Blue or Brown	
10	Stop sensor	Blue or Brown	

FUSE 5 Amp FAST