# Irrigation: several times a week

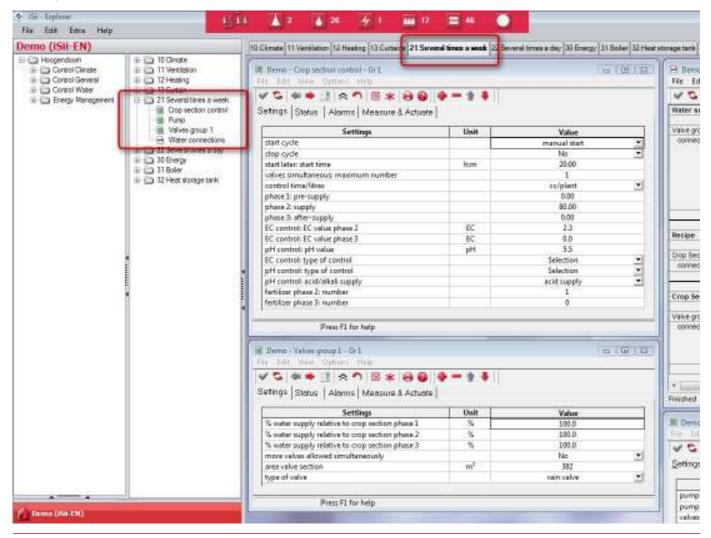
A cultivation in the soil has to be irrigate several times a week.

- 1. Create a worksheet
- 2. Pump
- 3. Valve group 1
- 4. Crop section control
- 5. Water connections

#### 1. Create a worksheet

First, create a worksheet '21 Several times a week'. Proceed as follows:

- 1. Create a folder '21 Several times a week' in My explorer
- 2. Drag the setting lists and the waterconnectios survey form the Hoogendoorn explorer to this folder
- 3. Drag them on to the worksheet



# 2. Pump

The setting list of "Pump" you can adjust to the following list:

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sectore resource entrees		
Settings	Unit	Value
	Unit	Value
Settings	llait	Value 00:00

# pump: stop / continue

In this setting you can choose from:

• set pump to pause: irrigation is paused until midnight

let pump continue: the alarm is cancelled, irrigation continues from the same point where the pump was stopped for an alarm or pause

# pump: pause time

These settings are used to specify a pause. The pause time then counts down. Once the pause time has elapsed, irrigation starts at the same point where the pump was stopped before the pause.

#### valves simultaneous maximum number: ViP

This setting allows you to set or more valves may be opened simultaneously.

#### 3. Valve group 1

The setting list of "Valves group 1' you can adjust to the following list:

He Tult Vice Options Help ✓ C ← ● I A つ ⊠ ★ ∂ @ ! Setings  Status   Alarms   Measure & Actuate		• (1)	-14					
Settings	Unit	Value						
% water supply relative to crop section phase 1	5	105.0						
% water supply relative to grop section phase 2	5	100.0						
% water supply relative to crop section phase 3 % more valves allowed simultaneously area valve section m <sup>2</sup>		100.0 No <u>+</u> 380						
					type of valve		ann aile	
					inter Preux P1 for help	- 14	abb & flow salve stave volve lavet valve	
		water from silo	1					

# % water supply relative to crop section phase 1

% water supply relative to crop section phase 2

% water supply relative to crop section phase 3

These settings enable you to set the percentage of the water supply relative to the crop section. Normally these settings would be 100%.

#### more valves allowed simultaneously

This setting allows you to set or more valves may be opened simultaneously.

#### area valve section

Input the area of the valve section in this setting. This setting is used to control the water supply in I/m2.

#### type of valve

You can choose for example: rain valve.

# 4. Crop section control

The setting list of 'Crop section control' you can adjust to the following list:

C + + i			
etings   Status   Alarms   Measure & Actual	e]		
Settings	Unit	Volue	
start cycle		transal met	
stop cycle		monual start	
start later: start time	han	direct manual start	
valves simultaneous implimum number		start time crop section	
control time/litres		no extra start	
phase 1: pre-supply		0.00	
phate 2: supply		00.08	
phase 3 after-supply	1000	0.00	
EC control: EC value phase 2	EC	2.3	
EC controll EC value phase 3	EC.	0.0	
pH control: pH value	pH	5.5	
EC controli type of control	1111	Selection	
pH control: type of control		Selection	
pH control: acid/alkali supply		acid supply	
fertilizer phase 2: number		1	
fertilizer phase 3: number		a	

### start cycle

You can give an extra cycle with a manual start or start time.

#### stop cycle

If this setting is set to 'yes' while the crop section is active with the pump, the current cycle is stopped completely.

# start later: start time

This enables you to specify in the morning that a cycle must be started in the afternoon or evening. In the 'start cycle' setting you must choose start time crop section.

# valves simultaneous: maximum number

This setting is used to specify the maximum number of valves that may be opened simultaneously.

# control time/litres

You can choose:

- volume in m3
- litres per m2
- cc per plant
- time
- cc per m3

# phase 1: pre-supply

During Phase 1, no ferilizer given. This is always clean water.

This phase is often used in open ground to wet the ground, so water and fertilizer during Phase 2 disappears not directly in the soil.

#### phase 2: supply

During Phase 2 fertilizer is given.

#### phase 3: after-supply

Phase 3 is used, for example, to give spreader.

#### EC control: EC value phase 2 EC control: EC value phase 3

# pH control: pH value

The target value for the EC in phase 2 and 3 and the target pH.

If the water stops due alarm, and the alarm is not canceled within 15 minutes, it is automatically started Phase 3: after-supply with clean water.

#### EC control: type of control

You can choose one or more options in this setting:

- phase 3 EC supply
- phase 2 EC supply
- phase 3 EC recirculation
- phase 2 EC recirculation
- phase 1 EC recirculation

#### pH control: type of control

You can choose one or more options in this setting:

- Phase 3 pH active
- phase 2 pH active

#### pH control: acid/alkali supply

You can choose one or more options in this setting:

- supply alkaline
- supply acid

# fertilizer phase 2: number selection fertilizer phase 3 number selection

Different fertiliser types can be used for phases 2 and 3.

# An option can be chosen for each phase in these settings.

### 5. Water connections

You can adjust the group connection survey of the Water connections as follows:

♥ G 田 川 田 大 8 6 ◆ = ↑ ↑						
Water supply unit	Gri	Gr 2	- 11			
Valve group 1						
connection water valves - pump	-	-			-	
Resipe	Grt	Gr 2	Gr 3	6r4	Gr.5	Gré
Crop Section						
connective grop sections - recipe	-	-	2	-	-	
Crop Section	Gr1	612	64.9	Gr4	Gr 6	Gr 6
Valke group 1						
connectails water valves - grop section	- 2	-	+	-	1	

Then the valves and crop sections can be connected as the following example:

		2.4	
Water supply unit	Gr.1	0r.2	
Valve group 1			
connectian water valves - pump	0r1 •1 0r2 0r3 0r4 0r6 0r6 0r6 0r7	2	
Recipe	6/1	Gr 2	Gr 3
Crop Section			
connectail crop sections - recipe	Gr2	or1 🗉	-
Crop Section	Gr1	Gr J	Gr 3
Valee group 1			
connectes water weves - crop sectors	Gr1 • Or2 Gr3 Or4	ors 🖭 ore	Gr7 🧕