



Homework – Lesson 1

1. Ask your parttime grower how often maintenance is done

Sensor	How often?
Aspirator box	Every day / Every week / Every month / Every year
EC and pH sensor	Every day / Every week / Every month / Every year
Rain sensor	Every day / Every week / Every month / Every year
Wind direction sensor	Every day / Every week / Every month / Every year
Wind speed sensor	Every day / Every week / Every month / Every year



Homework – Lesson 2

1. Read tip 6: Minimum vent position humidity
2. Please complete the following setpoint

lee side vent position humidity: VIP - %				
	Period state			On <input type="button" value="v"/>
	Start time			00:01
	Relative to			Clock <input type="button" value="v"/>
Baseline average	Change			00:00
0.0	Value		0.0	
	Influence	From	To	Now
	lee side: deviation ventilation temperature - outside temperature - °C <input type="button" value="v"/>			
	No influence <input type="button" value="v"/>			



Homework – Lesson 3

1. Read tip 7: RH influence on ventilation control
2. Please enter the same setpoint in your demo system
3. The base RH is 80%
4. What is the ventilation temperature when the RH is:
 - a. 80 % °C
 - b. 75 % °C
 - c. 70 % °C
 - d. 65 % °C
 - e. 60 % °C
 - f. 55 % °C
 - g. 50 % °C
 - h. 45 % °C
 - i. 40 % °C



Homework – Lesson 4

1. Read tip 17: minimum tube based on AH
2. Please complete the following setpoint

circuit pipe minimum: ViP - °C						
	Period state			On <input type="button" value="v"/>	On <input type="button" value="v"/>	
	Start time			00:00	00:00	
	Relative to			Sunrise <input type="button" value="v"/>	Sunset <input type="button" value="v"/>	
Baseline average	Change			00:30	00:30	
43	Value			40	45	
Influence	From	To	Now	1	2	
radiation: measurement - W/m ² <input type="button" value="v"/>	200	350		-25	0	
heating: deviation RH measured - ViP - % <input type="button" value="v"/>						
deviation AH: greenhouse - meteo - g/m ³ <input type="button" value="v"/>						
No influence <input type="button" value="v"/>						



Homework – Lesson 5

1. Read tip 4: Avoid too high temperatures under a closed screen
2. Please complete the following setpoint

curtain: ViP crack - %					
	Period state		On	On	
	Start time		-03:00	01:00	
	Relative to		Sunset	Sunset	
Baseline average	Change		00:00	00:00	
3.3	Value				
Influence	From	To	Now	1	2
heating: deviation greenhouse temperature - heating temperature - °C					
No influence					



Homework – Lesson 6

1. Read tip 16: Avoid climate shocks
2. Please enter the same setpoint in your demo system
3. The heating temperature is 20 °C
4. What is the outside temperature close when the greenhouse temperature is:
 - a. 21,0 °C °C
 - b. 20,5 °C °C
 - c. 20,0 °C °C
 - d. 19,5 °C °C



Homework – Lesson 7

1. Read tip 5: Stability in the screen control
2. Please complete the following setpoint

curtain: minimum interval curtain position change: ViP - h:m					
		Period state		On <input type="button" value="v"/>	On <input type="button" value="v"/>
		Start time		00:00	00:00
		Relative to		Sunrise <input type="button" value="v"/>	Sunset <input type="button" value="v"/>
Baseline average		Change		00:00	00:00
00:03		Value			
Influence		From	To	Now	
No influence <input type="button" value="v"/>					
				1	2



Homework – Lesson 8

1. Read tip 12: Setting up the irrigation strategy with supplemental lighting
2. What are the sources in the greenhouse of your parttime grower

Source	Measurement	Contribution to evaporation energy