



HORTICULTURE

Complete & configurable solutions for horticultural applications



HARVEST YOUR FULL BUSINESS POTENTIAL



Harvest Your Full Business Potential

- Find out more at www.senmatic.com or contact DGT by Senmatic to hear how we can add value to your business:

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About DGT by Senmatic

DGT by Senmatic develops sustainable technology solutions for modern horticultural production, ranging from greenhouses and garden centers to large-scale vertical farms and research facilities.

We specialize in controller technology for optimization of crop growth and product efficiency, and deliver complete and configurable solutions for horticultural applications, such as electronic and mechanical climate control, irrigation and fertilizer mixing, and horticulture LED grow lights. We also offer full line solutions built from our wide and deep product range.

Our product range provides 360° management of your installation – from complete climate control solutions and flexible fertilizer mixing systems to management software and powerful LED fixtures delivered as single product solutions or full line solutions. We have an outside-in perspective: we develop products with customers for customers.

Reliability, user friendliness and the possibility of combining and configuring our systems and products keep us at the forefront of the horticultural industry. Our controls are all tested on-site at commercial greenhouses during development.

Put simply, we develop state-of-the-art products with long life spans that improve your return on investment.

Your sustainable technology partner

Our products allow you to create healthier crops under full control – even where climate traditionally would be a challenge for production. We focus on developing products that enable sustainable production for all our customers.

In addition to products offering improved sustainability, we work with three of the 17 Sustainable Development Goals. Read more on how we work with sustainability [here](#).

Our history

Founded under the name DGT (Danish Greenhouse Technology) in 1956, we bring more than 65 years' experience to the table. In 2004, DGT was acquired by Micro Matic and placed under Senmatic and in that connection renamed to Senmatic. As of today, the two names have been combined and we are now known as DGT by Senmatic.













Who will you meet at DGT by Senmatic?

We highly value personal corporation with all customers, small or large. Working closely with our customers is the key to our success, and why we are one of the leading global suppliers of horticultural controls and equipment. It is also why our sales team consists of horticultural growers and technicians: they truly know their way around a greenhouse and with their extensive hands-on experience they can guide you to solutions that match your exact needs.





With distributors in more than 20 countries, we support customers on most continents. Most of our distributors have cooperated with us for many years. They are all very technical skilled and highly qualified in supporting you in our product range and how to ensure you the best solution.

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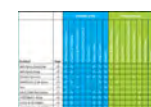


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Solutions Suitable For Your Business

We are a full-line supplier for growers, farmers and builders within commercial horticulture and for the specialized requirements of, for example, horticultural research facilities and garden centers. Therefore our products are suitable for many different business areas.

Solutions



Commercial Greenhouse

A commercial greenhouse is a highly complex installation and requires intelligent control of all climate factors: ventilation, temperature regulation, CO₂ enrichment, fertilizer and irrigation mixing (fertigation), water recirculation, and grow lights. Just to mention a few.

Out of breath? Luckily, you don't have to be.

DGT by Senmatic's 360° management solution makes it easy to keep an eye on all factors – in fact, you can control your greenhouse by the touch of a single finger using our climate control, which connects all factors.

Product groups in particular suitable for this area:

- LED Lighting
- Electronic Climate Control
- Analog Climate Control
- Mechanical Climate Components
- Irrigation & Fertilizer Mixers
- Mechanical Irrigation
- Water Purification
- Software



Vertical Farming

Production of plants and food is no longer limited to traditional industrial greenhouses. If you have space, you can grow. Even underground with no natural sunlight.

Vertical Farming is all about making use of cubic meters instead of square meters – in vertically stacked layers, vertically inclined surfaces or integrated in other structures, such as in a skyscraper or a former warehouse.

Only the sky is the limit, as long as all environmental production factors are closely controlled. Be it control of humidity, temperature and CO₂, integration of grow lights and irrigation and fertilizer mixing.

Product groups in particular suitable for this area:

- LED lights
- Irrigation & Fertilizer Mixers
- Electronic Climate Control
- Software

Solutions



Indoor Growing

Green environments and farming for production purposes are far from limited to outdoor areas or large commercial glass-houses. Many surrounds themselves with green spaces at their office, some grow herbs in old shipping containers, and others analyze on plant behavior and growth in climate chambers, adjusting on light, humidity, and temperature.

Whether your installation is in an office, a shipping container, or a climate chamber, being in control of the techniques that lie behind to keep greens green or securing that indoor growth bears fruit is a necessity.

That is true for control of grow lights, fertilizer and irrigation, humidity, temperature, and gases.

We provide turnkey solutions that include all the components needed for indoor farming in a closed system – and investors profit by our year-long experience with controlling all aspects of the growth process.

Product groups in particular suitable for this area:

- LED Lighting
- Electronic Climate Control
- Irrigation & Fertilizer Mixers
- Software



Research

If any, research facilities demand precision and stability. To achieve precise control of several important growth parameters, dynamic control of light intensity and spectral distribution is essential, while the same is true for precise irrigation, fertilizing, and climate control.

We are experts at that.

Our electronic climate control systems, controllable LED grow lights, including fixtures designed specially to replicate natural sunlight, as well as irrigation and fertilizer mixing, provides the required precision necessary in a research facility.

Product group in particular suitable for this area:

- LED Lighting
- Electronic Climate Control
- Irrigation & Fertilizer Mixers
- Software



Solutions



Garden Centers

Many garden centers include indoor as well as outdoor areas, such as greenhouses, where plant-loving customers can explore flowers, house plants, bushes, and trees.

And that calls for control of climate, lighting, and watering. Customers and employees appreciate a pleasant atmosphere in the garden center, while you as an owner need smart solutions that keep costs low, while also ensuring that plants are kept fresh and look their best with natural and correct colours, as it certainly affects sales.

Product groups in particular suitable for this area:

- LED Lighting
- Electronic Climate Control
- Mechanical Irrigation



Educational Institutions

The horticulture industry continuously gains deeper insight and knowledge about plants, plant physiology, and growth methods. With the development follow smarter equipment and technologies that growers and technicians must be able to operate and utilize most optimally.

In DGT by Senmatic we work with Danish and global educational institutions about equipment and technologies for use for training. We advise on purchase of our solutions, installation, and use, providing the students the best learning conditions to acquire practical use and knowledge about equipment, systems, and everyday life controlling the many climate factors in a commercial greenhouse, a vertical farm, or similar productions in our industry – and from it become ready to secure that will harvest their full potential year-round.

Product groups in particular suitable for this area:

- Electronic Climate Control
- LED Lighting
- Irrigation & Fertilizing
- Software



Significant energy savings by investing in electronic climate system

“

“Our business exists today, because of our investments in energy savings,” answers grower and owner of Gartneriet Skovbrynet, Jeppe Aavang, when asked about the outcome of his investments in controller technology from DGT by Senmatic. And the energy savings are significant: from 150,000 cubic meters district heating in the early 2000's to less than 48,000 cubic meters in 2020.

Automatic climate tailored to the cultures for high security

“The climate control acts as security to me. Previously, I would most likely give some of my cultures high temperatures to get make them ready for sale quickly and then growth regulate them using chemistry. Now, we don't even use PGRs anymore, because I can choose an average temperature and be absolutely certain that it is followed to the letter with screens, shades, etc. I now know for certain that the culture is ready for sale in due time, and with our high product quality.”

Jeppe Aavang, Owner of Gartneriet Skovbrynet



Intelligent climate results in savings

“We knew that cultures could do with 10 degrees at night. But how about 6 degrees? That kind of knowledge is directly linked to cost savings and bottom line, when used actively in the climate control to utilize automation. You must of course have a strong basis of both technical and gardening knowledge to do so.”



Jeppe Aavang

Savings free finances for new investments

With automation unnecessary expenses are cut and energy use reduced significantly. The savings achieved by investing in the climate system means that finances that would otherwise be earmarked for expenditures now can be spent on investing in other projects.

“In an older greenhouse as ours, it has been pure survival to invest in cost reductions. Both in terms of expenditures, but also because we achieve a better product and limit chemistry,” says Jeppe Aavang



Read the full case - and get to know
how you can save energy



Fewer mixers better results

When the Danish nursery DanRoses took ownership of an older nursery on the Danish island Funen four years ago, seven fertilizer mixers from the 1980's controlled all watering in the production, but the process was always monitored by the grower due to instability and errors. Now, fewer new mixers give better results - and peace of mind.

“Some mornings we discovered that the planned watering at night hadn't even started and we knew that we would not be able to catch up with watering before having to pack roses in our packing department. As a result, we would take a loss,” says Lars Olsen, who is responsible for the daily management, production, and sales at DanRoses.

Now, the seven old mixers have been replaced with three new AMI Penta from DGT by Senmatic, and the system needs no human control.

“We now know that irrigation is carried out as planned with the correct dosage of fertilizer. I drive to work in the mornings with far more peace of mind and we experience less loss in our production,” explains Lars Olsen

“

Watering reduced from 12 hours to just 2.5 hours daily

The old mixers had active watering activities for 12 hours every single day. One pump could control only one watering valve at a time and it took 40 minutes to water per valve.

With the AMI Pentas, active watering activities have been reduced to just 2,5 hours daily, irrigating through three valves simultaneously - in just 20 minutes.



“

“We used to spend hours upon hours on watering. The old pumps were instable, we had no security when it came to fertilizer dosage and had to control the process manually. That time is now free for other tasks - and we even save fertilizer, because of the high accuracy of dosage. It's much more effective,” Lars Olsen states.

Read the full case - and get to know how you can optimize your production





Comprehensive range of products matching the horticulture requirements

DGT by Senmatic delivers complete and configurable solutions for horticultural applications such as electronic and mechanical climate control, irrigation and fertilizer mixing and LED lighting.

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ELECTRONIC CLIMATE CONTROL

- Creating the optimal climate for plants

DGT by Senmatic supplies advanced climate computers for the monitoring and control of the complex processes in commercial greenhouses, creating the optimal climate for plants.

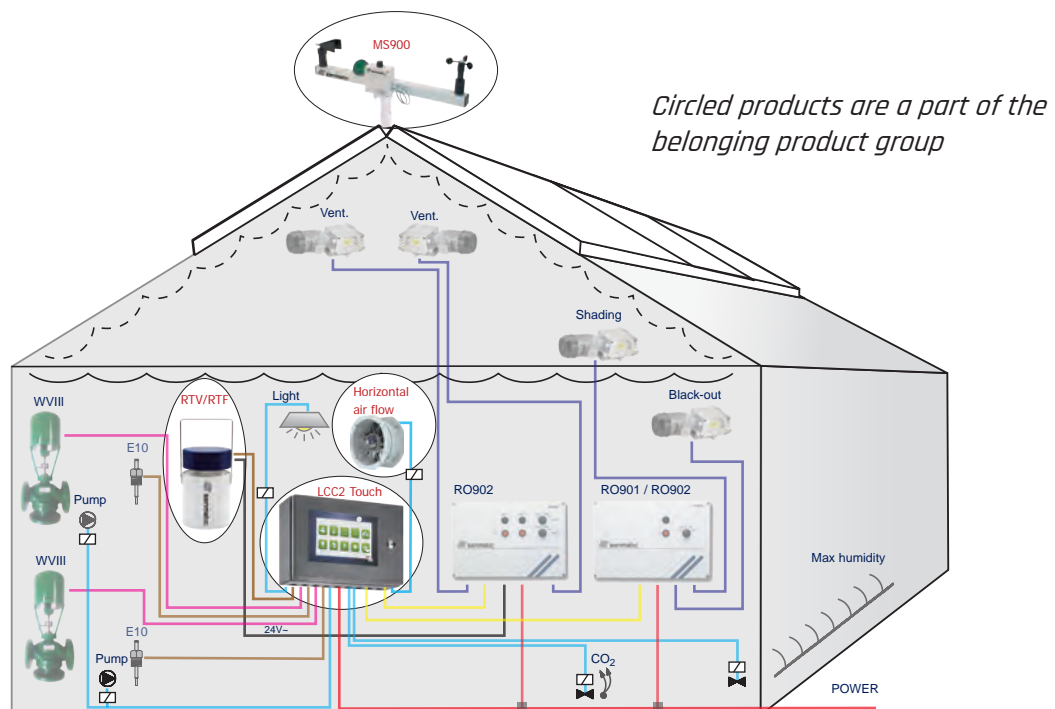
Logic Climate Control (LCC) computers control all climate functions. Operation is based on a logically constructed menu, and the display shows the settings most frequently used by the growers. The modular system makes it easy to add more sections or climate zones, expanding the system to handle more functions and expand with more greenhouses.

The communication is fast and the system built up using our own Superlink software, enabling the advantages of dynamic climate control.

DGT by Senmatic's electronic climate control products are highly reliable and can handle extreme environments. These include:

- Logic Climate Control (LCC) products for intuitive and configurable monitoring and control from single greenhouses up to 16 climate zones
- Climate sensors from complete weather stations to temperature, humidity and CO₂ controllers available which can be added and combined as required Outdoor Climate Sensors on complete weather station for temperature, humidity and CO₂ control are available and can be added and combined as required
- If your requirement is for an analog system comprising climate and heat regulators for single or double layer screens or top/side vent opening control, we can supply this, too

All systems can be combined and extended as required.





PRODUCTS BELONGING TO THIS PRODUCT GROUP

LCC4 Climate Control		The high-capacity climate control for 1 to 16 compartments with a great number of user-friendly technical functions.
LCC2 Touch Climate Control		The extended one house climate control with many functions. Easy to operate with clear menus on a 7" touch display.
LCC1 Climate Control		The basic one house climate control. Easy to operate with clear menus and function keys.
LCC1 Tunnel Climate Control		The basic one house climate control for tunnels. Easy to operate with clear menus and function keys.
MS900C Weather Station		The compact outdoor meteorological station with sensors.
RTF-6 / RTFC-7 Combined Sensor		Combined temperature, humidity and CO ₂ Sensor.
Fan for greenhouses		Homogenizes the temperature and optimizes the micro climate.
Remote Alarm		To be used for monitoring the climate and to send out alarms if e.g. the temperature or humidity is not within your specified range.
Leaf temperature sensor		Keep an eye on the plant's well-being.

ELECTRONIC CLIMATE CONTROL

- Functions and possibilities of each type are shown in the charts below

FUNCTIONS	LCC4	LCC2	LCC1	LCC1 Tunnel
NETWORK				
SuperLink	X	X		
Ethernet	X	X		
Expansion net	X			
Weather station	X	X	X	X
OPERATION				
Touch	X	X		
Line			X	X
COMPARTMENTS				
1 Comp	X	X	X	X
1 to 16 comp.	X			
ZONES				
1 Zone	X	X	X	X
2 Zones	X			
TIME ZONES				
2 Zones	X	X	X	
6 Zones	X	X		
VENTILATION				
2 Windows	X	X	X	X
4 Windows	X	X		X
IRRIGATION				
1 Valve	X	X	X	X
16 Valves	OPTIONAL			
1 Misting valve	X	X		
8 Misting valves	X			
SCREENS				
1 Pcs	X	X	X	
2 Pcs	X	X		
8 Pcs	X			
Light sum	X			
Proportional screen control	X			



FUNCTIONS	LCC4	LCC2	LCC1	LCC1 Tunnel
ALARMS				
1 Alarm	X	X	X	X
2 Alarms	X			
HEATING				
1 Heating valve	X	X	X	
2 Heating valves	X	X		
3 Heating valves	X	X		
4 Heating valves	X			
Heat step on/off	X	X	X	X
Energy balance	X	X		
Pump output	X	X	X	X
LIGHT CONTROL				
1 Light control	X	X	X	
4 Light controls	X			
Light control (step)	X			
Local quante	X	X		
LED dynamic light control	X			
VARIOUS				
Co2 control	X	X		
HAF	X	X		
Vent. fan on/off			X	
Tunnel fan	X			X
ADDITIONAL MODULES (OPTIONAL)				
Medium temp.	X	X		
SuperStep	X			
Remote control for tablet / pc	X	X		
Irrigation 16 valves	X			
NUMBER OF DIFFERENT AVAILABLE LANGUAGES				
	9	6	8	7

Please note that in some cases special I/O charts will have to be issued

IRRIGATION & FERTILIZING

- More solutions to suit every need

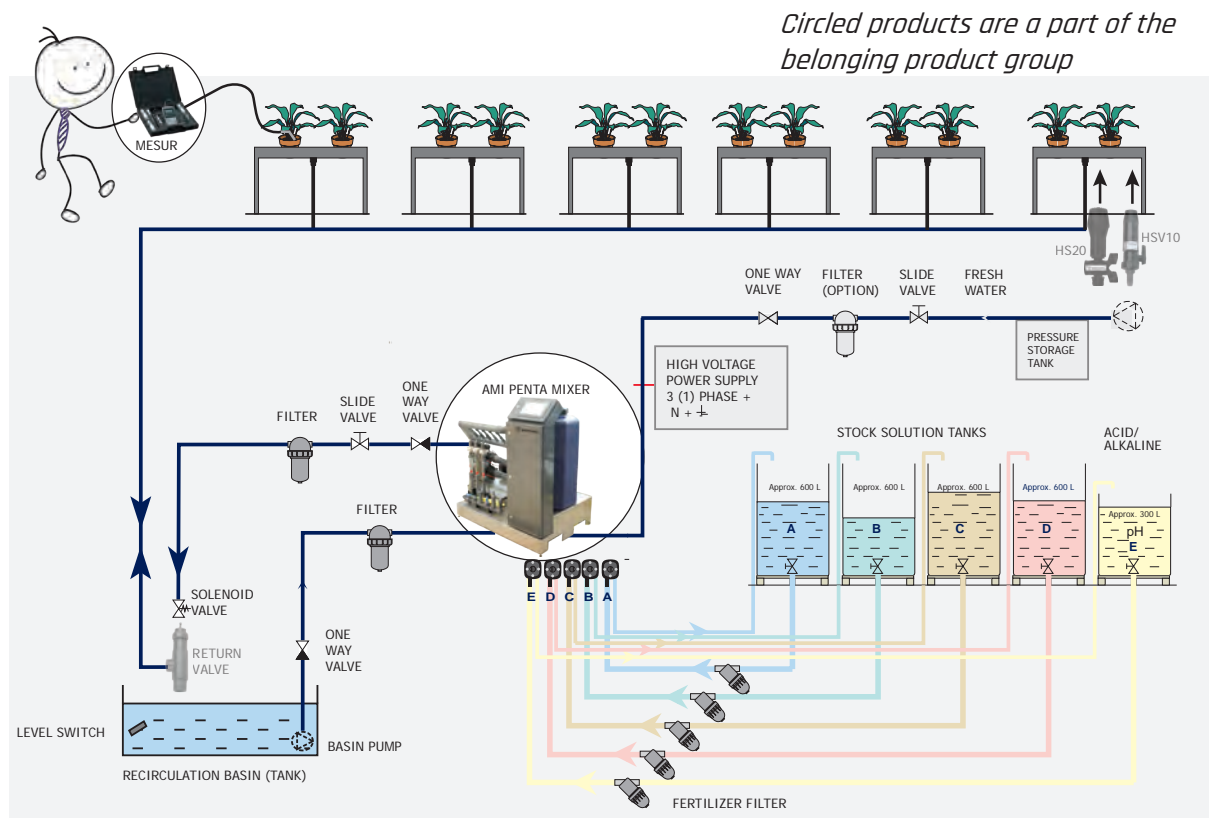
For optimal growing conditions, plants require the right amount of water on the right time. The DGT by Senmatic irrigation and fertilizer mixer ensures that water is delivered to the plants at exactly the right time, in the right amounts, and with the correct nutrients in the correct proportion, concentration and with the pH value constantly adjusted.

The irrigation controller manages requirements from drip over water distribution systems to complete fertilizer mixers with a touchscreen, allowing complete personification of the interface. Our AMI Penta mixer is also available as Bio-mixer for irrigation with biomass.

All systems can be connected to our advanced climate computers for electronic climate control using our SuperLink software for collection of data for further analysis.

Our irrigation and fertilizer mixing (fertigation) solutions include the following products:

- Compact and advanced irrigation and fertilizer mixers comprising high precision software, touchscreen and a modular construction, developed for ease of use and high reliability
- Mixer solutions where everything is customizable – the pump, number of fertilizer tanks and return tank (for water reuse) – for easy system expansion
- Bio-mixer for precise irrigation with biomass
- System for recycling return water for optimization of water resources
- Easy and rapid EC and pH measurement with alarms, including hand-held measurement available as an accessory





PRODUCTS BELONGING TO THIS PRODUCT GROUP

AMI Penta Fertilizer & Irrigation Mixer - also available as BIO mixer		For precise fertigation with irrigation control.
AMI Penta Controller		Fertilizer & Irrigation controller for renovating older fertilizer mixers.
VA Penta Irrigation Controller		The irrigation controller with large capacity and flexibility - for control of irrigation valves.
Mesur Hand Instrument		Combined EC, pH and temperature measuring instrument.
EPA904 EC and pH Alarm		Emits alarm when the set limits for EC and pH are exceeded.
VA60-8 Irrigation Controller		Manual and automatic differential irrigation.
Start Tray / Drain Tray		The trays are used to control the irrigation of cultures grown in Rockwool or perlite.

Use	AMI PENTA MIXER Precision fertigation with irrigation control	AMI PENTA CONTROLLER For renovating older fertilizer mixer
BASIC EQUIPMENT		
Pressure pump on mixer, up to 2 pumps	X	
Start signal to pressure pump (2)		X
Start signal to main pump (2)		
2 pcs Venturi or 2 pcs dosing pumps	X	
1 pcs EC control	X	
1 pcs EC transmitter (no sensor)		X
1 pcs EC sensor		
None pH control	X	X
1 pcs pH sensor		
None irrigation valve control	X	X
20 pcs recipe controls	X	X
100 pcs irrigation groups	X	X
16 various languages	X	X
Communication by Ethernet	X	X
ACCESSORIES		
Number of fertilize dosing units	Up to 8 pcs	Up to 8 pcs
pH control no. 1	X	X
pH control no. 2	X	X
EC control no. 2	X	X
No. of irrigation valve control (AC or DC)	Up to 200 pcs	Up to 200 pcs
Frequency control	X	X
Valve box (external irrigation valve & basin control)	X	X
Sun cell	X	X
CONTROL OPTIONS		
Irrigation on time or volume	X	X
Volumen registration	X	X
EC control 2-8 stock solutions	X	X
EC control, relative, absolute or ration	X	X
Mixing of fresh water and return water	X	X
EC depending on solar radiation	X	X
Automatic period with 4 time zones	X	X
24 hours pause, fixed time or fixed interval	X	X
Manual start of individual valves	X	X
Pre and post rinse valve	X	X
Sun integrator	X	X
Drain control	X	X
Volumen control	X	X
Analog start	X	X
External start	X	X
Fixed time interval	X	X
Frost protection	X	X
24 hours program	X	X
Week program	X	X
ALARMS OUTPUT	X	X



Use	VA PENTA Irrigation controller	EC / pH ALARM Get alarms when the set limits for EC & pH are exceeded
BASIC EQUIPMENT		
Pressure pump on mixer, up to 2 pumps		
Start signal to pressure pump (2)		
Start signal to main pump (2)	X	
2 pcs Venturi or 2 pcs PP40s dosing units		
1 pcs EC control		
1 pcs EC transmitter (no sensor)		
1 pcs EC sensor		X
None pH control		
1 pcs pH Sensor		X
None irrigation valve control	X	
20 pcs recipe control		
100 pcs irrigation group	X	
16 various languages	X	
Communication by Ethernet	X	
ACCESSORIES		
Number of fertilize dosing units		
pH control no. 1		
pH control no. 2		
EC control no. 2		
No. of irrigation valve control (AC or DC)	Up to 200 pcs	
Frequency control	X	
Valve box (external irrigation valve & basin control)	X	
Sun cell	X	
CONTROL OPTIONS		
Irrigation on time or volume	X	
Volumen registration		
EC control 2-8 stock solutions		
EC control, relative, absolute or ration		
Mixing of fresh water and return water		
EC depending on solar radiation		
Automatic period with 4 time zones	X	
24 hours pause, fixed time or fixed interval	X	
Manual start of individual valves	X	
Pre and post rinse valve		
Sun integrator	X	
Drain control	X	
Volumen control	X	
Analog start	X	
External start	X	
Fixed time interval	X	
Frost protection	X	
24 hours program	X	
Week program	X	
ALARMS OUTPUT	X	X

THE FUTURE OF LIGHT: LED GROW LIGHTS

- LED solutions to fit your needs and growth space

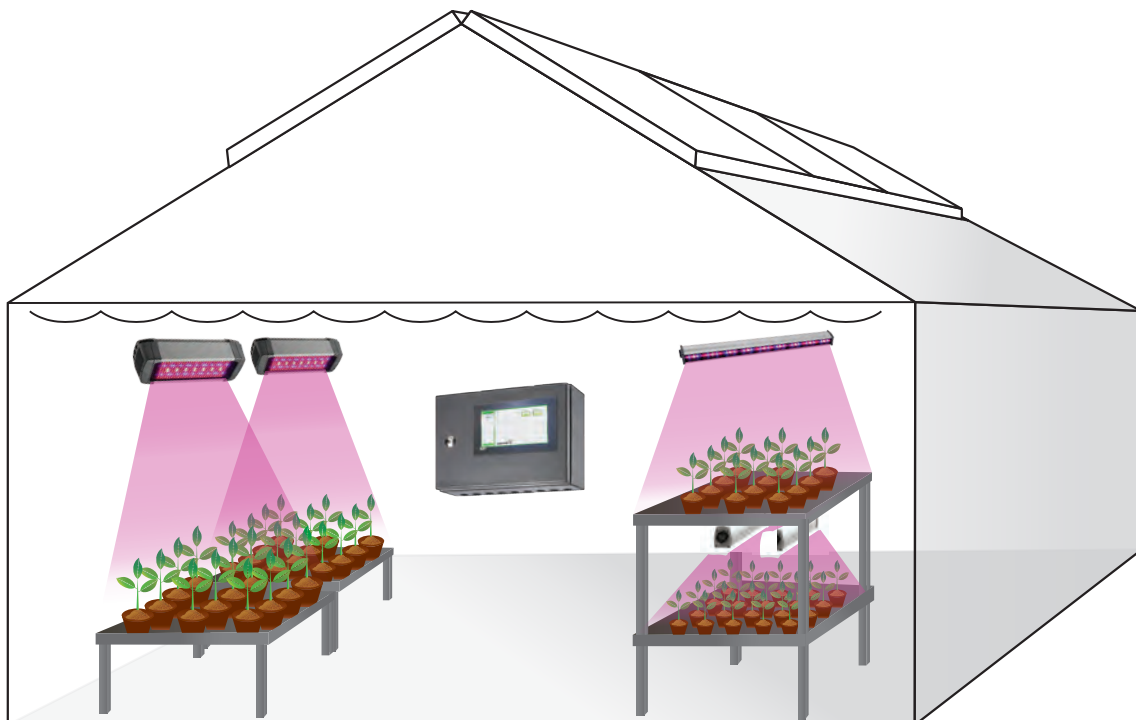
Growing plants is no longer limited to traditional industrial greenhouses – if you have space, you can grow, whether in a traditional greenhouse, vertical farms, growing directly in closed containers, or even underground with no natural sunlight. New growth conditions require new and smarter light solutions. Lights for growing plants have never been more important – and LED is the answer.

Do you want to grow herbs in an old warehouse? Do you want flexibility to change the cultures in your commercial greenhouse? You guessed it: we can construct the optimal commercial LED grow lights solution for you. Our products are of the best quality and we have been a commercial LED grow lights manufacturer since 2005.

Our LED grow lights integrate fully into our electronic climate control systems and offer dynamic control of the intensity and spectral composition of your greenhouse lighting. We do also have a fixture for simpler needs. This is a plug-and-play solution and makes the change from HPS to LED very simple.

LED lights from DGT by Senmatic gives you:

- Control of spectral composition and dynamic control of light intensity
- Better plant quality and higher output
- Long lifetime with no reduction of the light output over time
- Consistent light on the plants due to a patented optical lens system
- Minimum use of Plant Growth Regulation (PGR)
- Energy savings
- For optimal use of features and space, we can support you with a lighting plan showing you the number and position of fixtures and the distribution of light in your specific space





PRODUCTS BELONGING TO THIS PRODUCT GROUP

FL300 Grow		Powerful and suitable for hybrid solutions - Controllable. Suitable for: Greenhouses and Research.
FL300 Sunlight		Replicating the sunlight and with dynamic control of light intensity. Suitable for: Indoor Landscaping, Garden Centers, Research and Climate Chambers.
FL300 Grow White		Controllable LED fixture - powerful and with perfect colour recognition. Suitable for: Greenhouses, Garden Centers, Research and Climate Chambers.
FL100 Grow		The LED fixture with controllable spectral composition. Suitable for: Greenhouses and Research.
FL100 Sunlight		Matches of the rays of the sun - Control the light intensity. Suitable for: Greenhouses, Vertical Farming, Indoor Landscaping, Research, Indoor Growing, Climate Chambers.
FL00 Grow White		Offers a full continuous spectrum - Controllable. Suitable for: Greenhouses, Vertical Farming, Garden Centers, Research, Indoor Growing, Climate Chambers.
Light Controller		By using the LED Light Controller you can control the light intensity and spectral composition of both FL300 and FL100 LED lights. This to ensure the optimal outcome of your installation and harvest.
Grow Horti		The simple and effective LED fixture - a plug-and-play solution. Available with 4 different light profiles of blue light.

MECHANICAL CLIMATE COMPONENTS

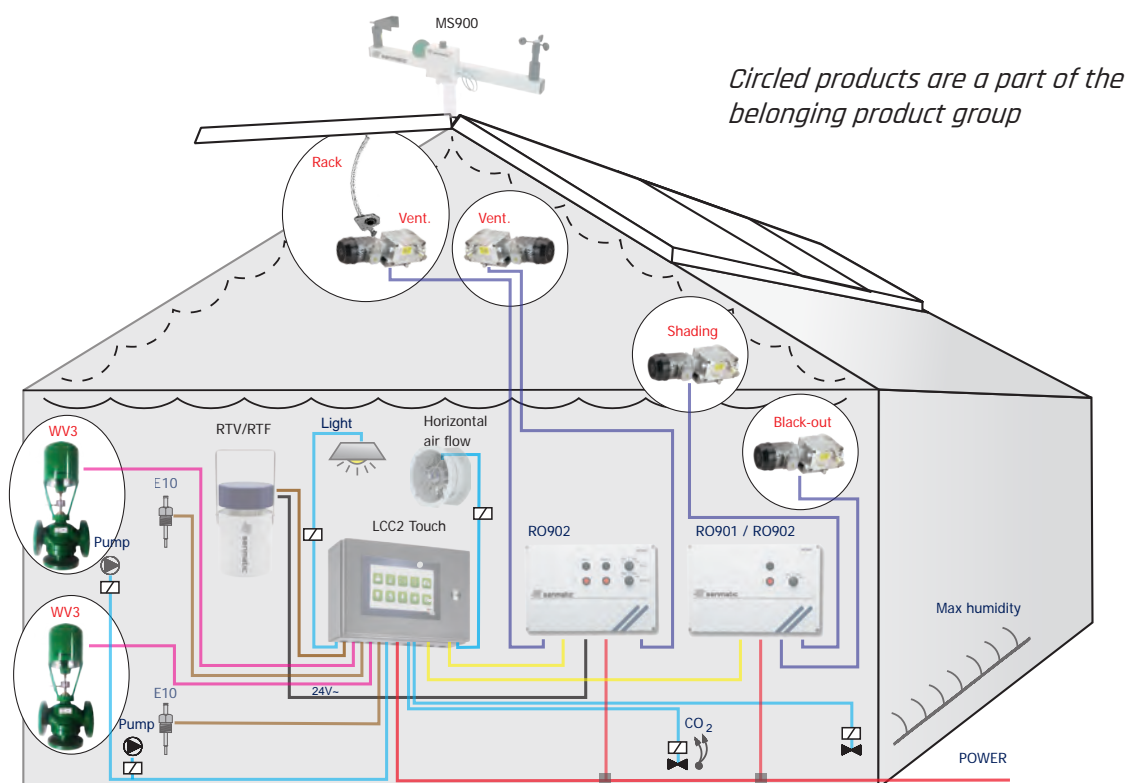
- The right ventilation for the best growing conditions

Greenhouse ventilation is important for keeping growing conditions in the greenhouse optimal. DGT by Senmatic supplies gears and racks that match perfectly the mechanical components required for opening and closing windows and screens. Our gear motors match all voltages, speeds and power sources. Torques range from 50 Nm to 400 Nm and are available with fixed limit stop or torque stop, or a combination of both types.

Racks and pinions are supplied in two types, depending on load requirements (variants up to 75 kg). Both types are available as straight or curved racks. Motor relays are supplied with built-in overload switches and heat valves with various flange sizes.

DGT by Senmatic supplies:

- Gears and motors covering all voltages, speeds and power sources, for vent and screen opening systems in greenhouses of any size
- Patented racks and pinions requiring a minimum of maintenance, low noise levels, and offering high reliability, flexibility and long lifetime
- Three-way regulating heat valve for controlling the hot water heating system





PRODUCTS BELONGING TO THIS PRODUCT GROUP

LG25 Gear Motor		For high performance and quiet operation. For smaller greenhouses like orangeries, operating ventilations or screens. Pulls up to 10 m polycarbonate window and up to 7 m glass window.
LG120 Gear Motor		Designed for operating vents and screens. Pulls up to 50 m polycarbonate window and up to 40 m glass window.
LG120 Gear Motor for Sempleta		Designed for operating vents and screens and runs with Sempleta Climate Control. Pulls up to 50 m polycarbonate window and up to 40 m glass window.
LG240 Gear Motor		The compact gear motor with high performance and small installation dimensions. Pulls up to 65 m polycarbonate window and up to 55 m glass window.
LG403 Gear Motor		Gear motor with torque stop, and double position stop. For the very large installation - pulls up to 120 m window.
LG405 Gear Motor		Gear motor with double position stop. For the very large installation - pulls up to 120 m window.
WV3 Heat Valve		Reliable 3-way regulating valve for hot water systems.
LV7R/B & LV20R/B Racks		Strongest in the market - Rack-and-pinion vent opening system for greenhouses.

ANALOG CLIMATE CONTROLS

- with individual functions for an optimal climate

For many years DGT by Senmatic has produced and delivered analog controls of climate and irrigation. This ensures optimal conditions for the plants.

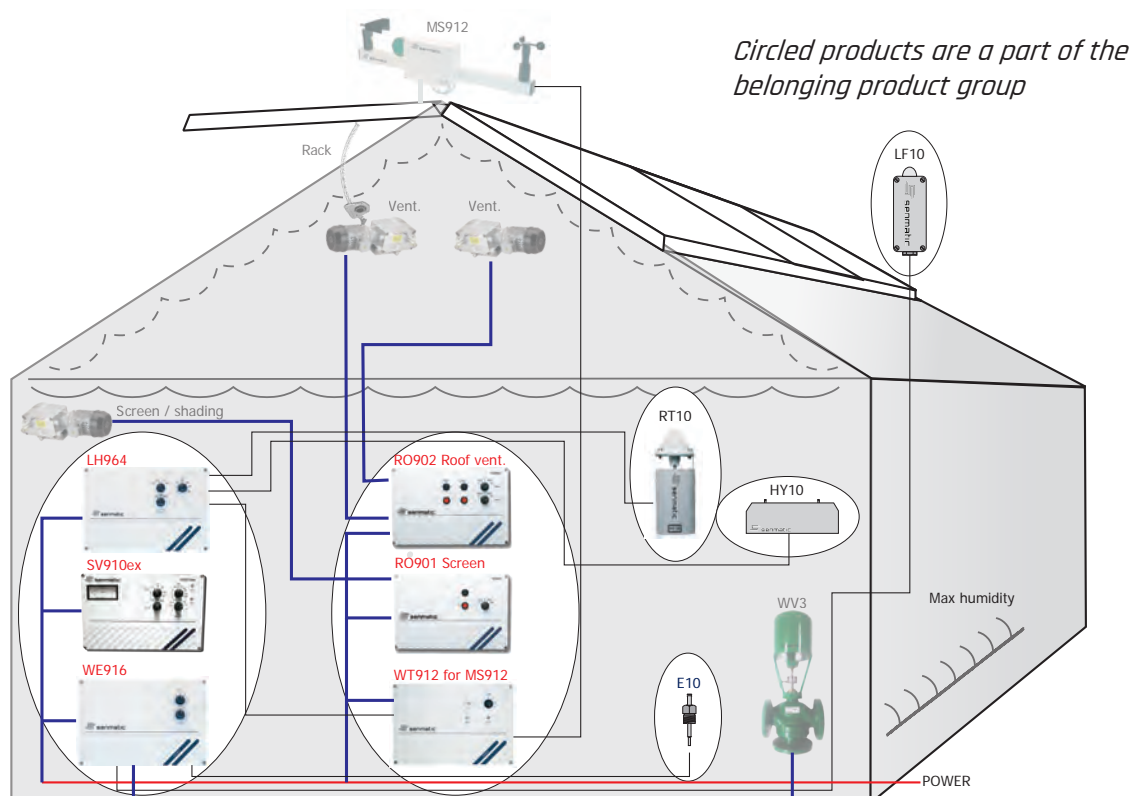
With analog control it is possible to buy "individual functions" and thus invest only in what is necessary for your greenhouse.

All analog controls are supplied with sensors and weather stations that gives the sensor the information of what to be used. If more than one function is to be controlled, several units can be mounted to achieve a good and safe control of the parameters in the greenhouse.

DGT by Senmatic also produces control relays to be mounted between the gear motor and the steering. The control relays have built-in motor protection, which comes in several different sizes.


Analog controls can be provided for controlling:

- Ventilation regulator for controlling ventilation windows
- Control relays with motor protection for manual operation or switch for automatic input
- Control relays for control of pipe motor for manual operation or switch for automatic input
- Fire extinguishers can be purchased for the control relays allowing opening at fire signal





PRODUCTS BELONGING TO THIS PRODUCT GROUP

R0901 & R0902		Motor relays with built-in overload switch.
Sempleta Climate Control		For Control of room temperature and shade.
Climate Sensors		Correct measurement of actual plant conditions.

MECHANICAL IRRIGATION

- For mobile and stationary bench systems

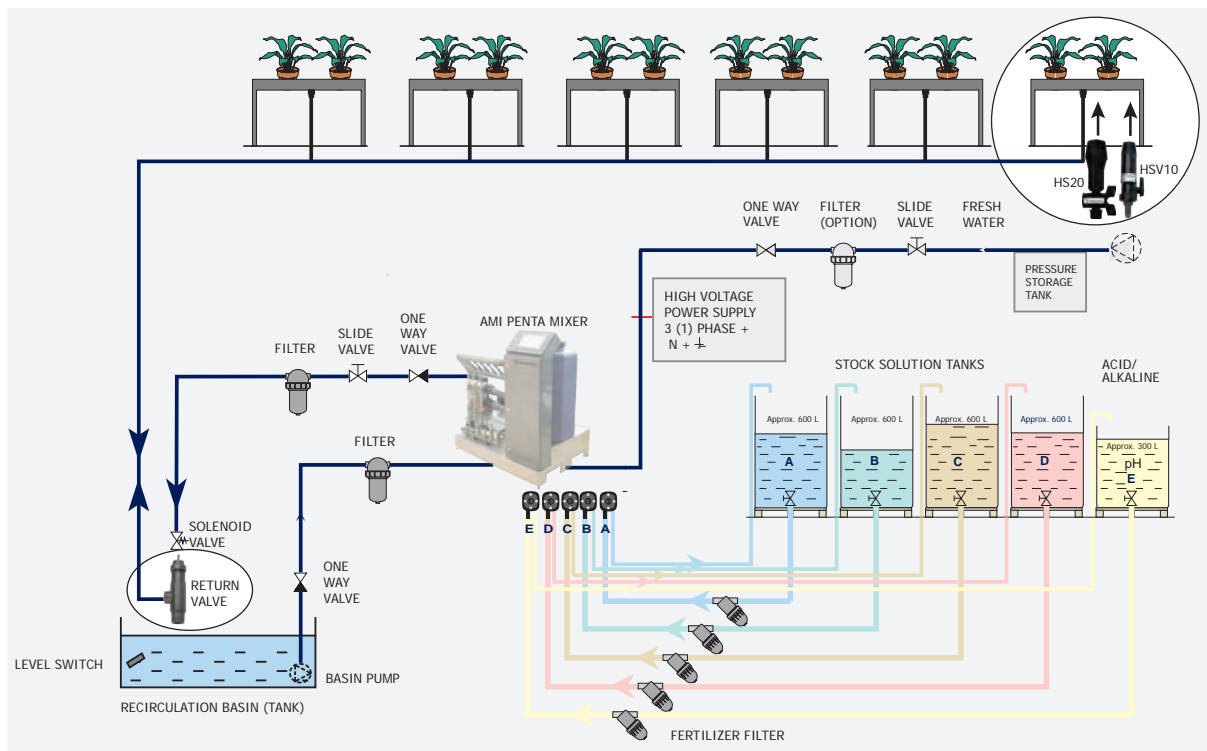
For plant watering systems, we supply nozzles, drips and valves that ensure water gets to the plants effectively. Our mechanical irrigation equipment for mobile and stationary bench systems is very easy to operate. The irrigation time is adjusted for each valve by the fertilizer mixer or irrigation equipment.

Water is then delivered using drip irrigation, laid out so that each single plant or tree is supplied with the correct amount of water, or from nozzles/sprinklers for atomizing spraying, cooling or addition of humidity.

We supply:





- Irrigation valves for perfect filling and emptying of benches, designed for easy transport of mobile benches around the greenhouse
- Drip irrigation in-line systems ensure accuracy with precision dosing of nutrients and precise control
- Nozzles with built-in membrane and filter for mist propagation, cooling, humidification, fine irrigation and irrigation

Circled products are a part of the belonging product group





PRODUCTS BELONGING TO THIS PRODUCT GROUP

HSV10, HS20 and Return Valves		For flood-ebb irrigation in a single pipe system.
GW & GWM Membrane		Super nozzle also available with built-in membrane and filter in various variants.
HS20 Bench Valve		For table irrigation.
Mobile Bench Irrigation		Flexible irrigation for mobile bench systems.

WATER PURIFICATION

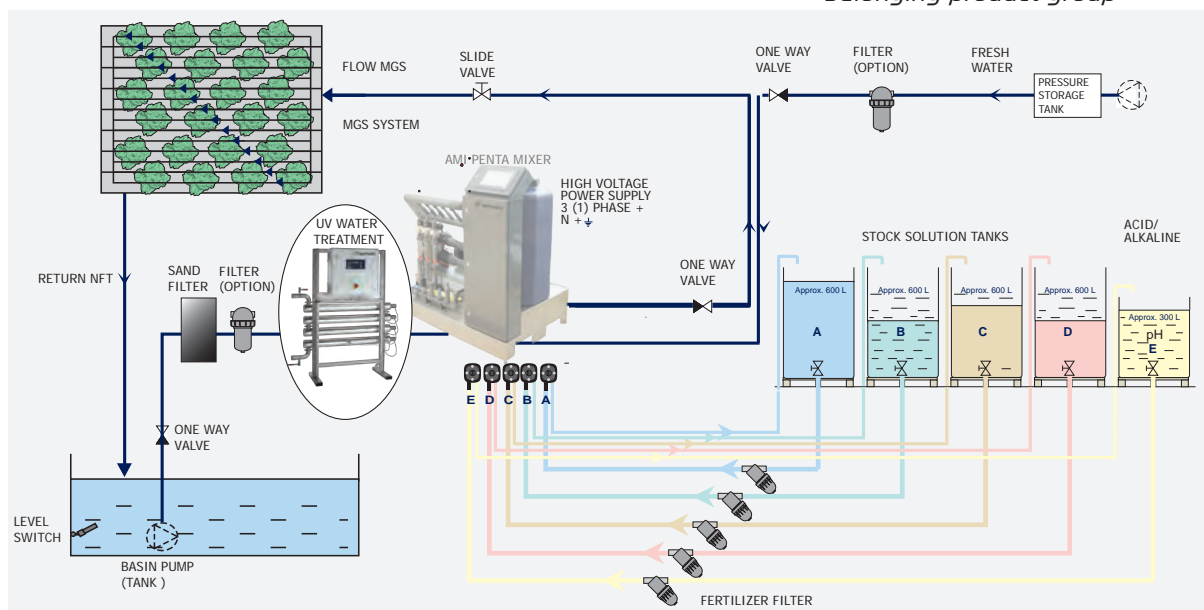
- UV disinfection system for effective water treatment

Today, water reuse is important for irrigation. Water scarcity, water costs and awareness of water management issues all contribute to the increasing use of water recirculation systems. However, water can contain bacterial and fungal and viral spores. We supply a UV disinfection system for effective water treatment to resolve these issues.

The water purification system uses a UV filter and can with advantage be installed in places where water is reused and stored in tanks, from where fungal spores and bacteria can easily spread in the recirculated water. The system can be installed together with a water recirculation pump and tank, and also directly online the water distribution system.

- We deliver UV disinfection systems adjustable by water flow and transparency and available in four sizes, ranging from 10 l/min to 400 l/min. We help you having the water transparency measured.
- Water treatment without the use of chemicals - no influence on the natural water composition
- Reduces the risk of infection
- Provides healthier root system and more resilient plants
- Economical savings by use of the fully automatic system
- Rainwater can contain possible contagion pressure, primarily from fungi, and this contagion pressure is reduced to a minimum
- Provides safety when using recirculating water

Circled product is a part of the belonging product group





PRODUCTS BELONGING TO THIS PRODUCT GROUP

UV Water Treatment		For environmentally friendly and careful disinfection. Can be connected to AMI Penta fertilizer and irrigation mixer which ensures optimal utilization of the UV tube burning hours.
Accessories	<ul style="list-style-type: none"> - Disc filters - Sand filters - UV lamp (spare) 	

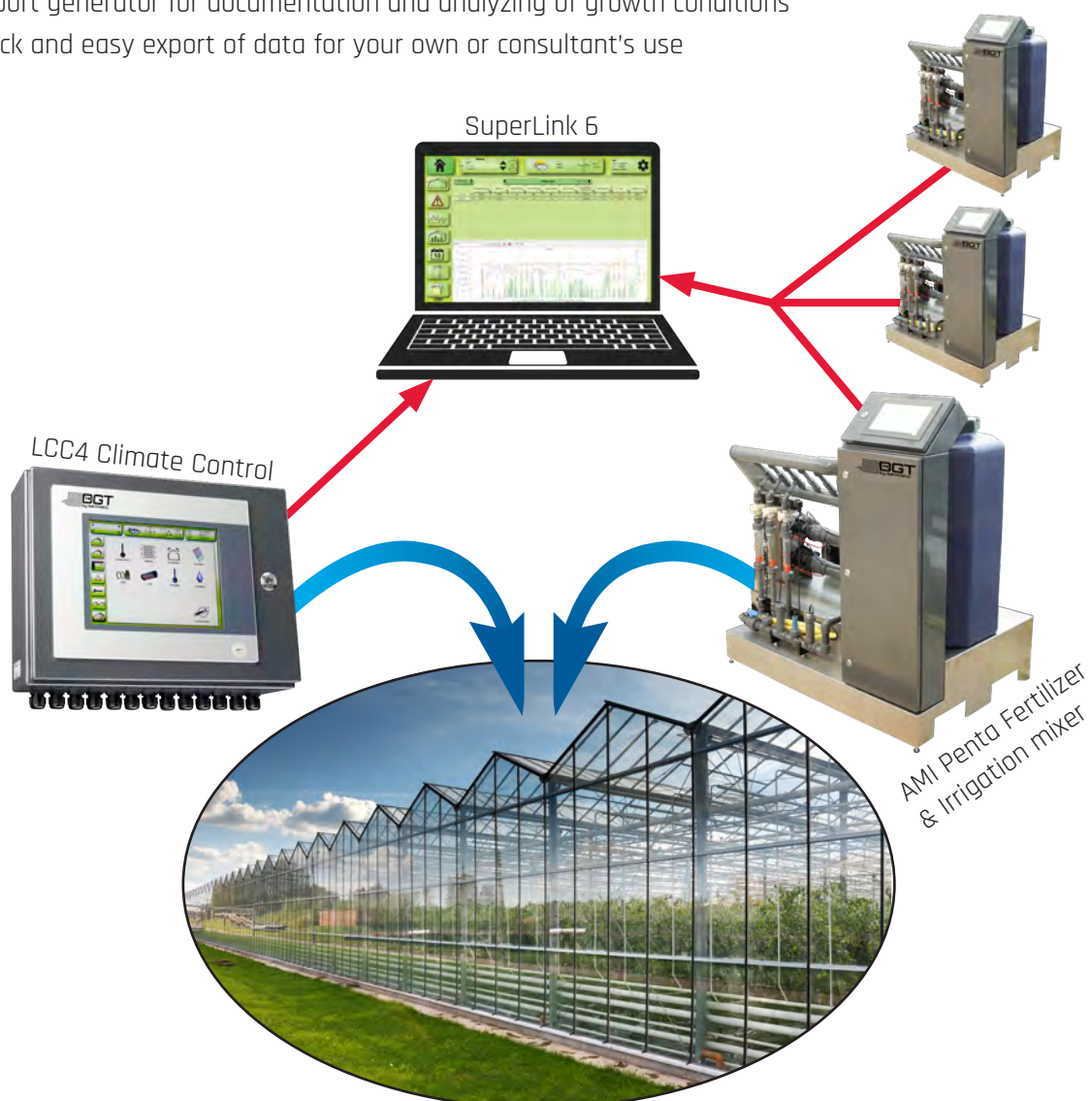
SOFTWARE

- SOFTWARE FOR DATA COLLECTION AND ANALYSIS FOR OPTIMAL CLIMATE CONTROL


SuperLink 6 is an advanced PC program with a graphic user interface. The program provides an easy and reliable control of all climate computers and fertilizer mixers from DGT by Senmatic. The program offers many new facilities and options for collection of climate and fertilizer data.

SuperLink 6 makes it easy and fast to read and adjust the conditions in various departments, as all information can be shown in and controlled directly from a central computer in the company. SuperLink 6 guarantees the best possible utilization of our advanced equipment for controlling climate, irrigation and fertilization.

- Central collection of data from climate controls, irrigation and fertilizer mixers from all departments
- Set-up the overview main menu and see your preferred data from different compartments
- Calendar function for planning of future actions
- Easy change between cultures by use of your own stored plant recipes
- Report generator for documentation and analyzing of growth conditions
- Quick and easy export of data for your own or consultant's use







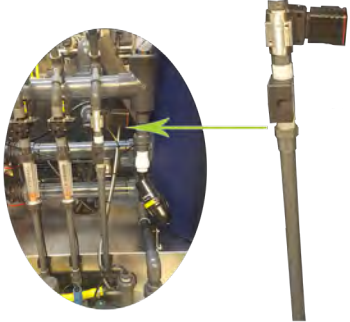
SuperLink 6 for Windows		Software for central control and collection of data for further analysis. Data are collected from our climate controllers and fertilizer mixers.
Accessories	<ul style="list-style-type: none"> - PC - Screens - Keyboard - Mouse 	

Overview of products and belonging solutions / product groups




		Solutions						Product Groups							
Product	Page	Commercial Greenhouse	Vertical Farming	Indoor Growing	Research	Garden Centers	Educational Institutions	Electronic Climate Control	Irrigation & Fertilizing	LED LIGHTING	Mechanical Climate Components	Analog Climate Controls	Mechanical Irrigation	Water Purification	Software
AMI Penta Controller	38	X	X	X	X	X	X		X						
AMI Penta Mixer	38	X	X	X	X	X	X		X						
AMI Penta Bio Mixer	38	X	X	X	X	X	X		X						
Climate Sensors	39	X		X	X	X	X	X				X			
EPA904 EC & pH Alarm	39	X	X		X	X	X		X						
Fan	39	X			X		X	X							
GW & GWM Membrane	40	X		X		X	X						X		
HS20 Bench Valve	40	X		X	X	X	X						X		
HSV10 & Return Valves	40	X		X		X	X						X		
LCC1 Climate Controller	41	X	X	X	X	X	X	X							
LCC1 Tunnel Climate Controller	41	X	X	X	X	X	X	X							
LCC2 Touch Climate Controller	41	X	X	X	X	X	X	X							
LCC4 Climate Controller	42	X	X	X	X	X	X	X							
Leaf Temperature Sensor	42	X	X	X	X	X	X	X							
LED FL100 Grow	42	X			X		X			X					
LED FL100 Grow White	43	X	X	X	X	X	X			X					
LED FL100 Sunlight	43	X	X	X	X		X			X					
LED FL300 Grow	43	X			X		X			X					
LED FL300 Grow White	44	X		X	X	X	X			X					
LED FL300 Sunlight	44			X	X	X	X			X					
LED Grow Horti	44	X					X			X					
LED Light Controller	45	X	X	X	X	X	X			X					



		Solutions						Product Groups							
Product	Page	Commercial Greenhouse	Vertical Farming	Indoor Growing	Research	Garden Centers	Educational Institutions	Electronic Climate Controls	Irrigation & Fertilizing	LED LIGHTING	Mechanical Climate Components	Analog Climate Controls	Mechanical Irrigation	Water Purification	Software
LG25 Gear Motor	45	X			X	X	X				X				
LG120 Gear Motor	45	X			X	X	X				X				
LG120 Gear Motor for Sempleta	46	X			X	X	X				X				
LG240 Gear Motor	46	X				X	X				X				
LG403 Gear Motor	46	X				X	X				X				
LG405 Gear Motor	47	X				X	X				X				
Mesur Hand Instrument	47	X	X	X	X	X	X		X						
Mobile Bench Irrigation	47	X		X	X	X	X						X		
MS900C	48	X	X		X	X	X	X							
Rack & Pinion	48	X			X	X	X				X				
Remote Alarm	48	X	X	X	X	X	X	X							
RO-Motor Relays / MR906	49	X		X	X	X	X					X			
RTF-6 / RTFC-7	49	X	X	X	X	X	X	X							
Sempleta Climate Control	49	X					X					X			
Start Tray / Drain Tray	50	X			X		X		X						
SuperLink 6	50	X	X	X	X	X	X								X
UV Water Treatment	50	X					X							X	
VA60-8 Irrigation Controller	51	X	X	X	X	X	X		X						
VA Penta Irrigation Controller	51	X	X	X	X	X	X		X						
WV3 Heat valves	51	X		X	X	X	X				X				




	Description	Product group
AMI Penta Controller - Fertilizer & irrigation controller for renovating older mixers		
	<ul style="list-style-type: none"> • For renewal of existing controller from either DGT by Senmatic or another vendor • Utilize your capabilities in a smarter way • Get the newest mixer software • Get more valves • Optimize your existing water system • User-friendly touch system - intuitive and easy to use • Flexible set-up of irrigation groups • Up to 100 irrigation groups with up to 30 valves per group • Set-up of your own fertilizer recipes • Available in many languages 	Irrigation & Fertilizer mixers
AMI Penta Mixer - For precision fertigation with irrigation control		
	<ul style="list-style-type: none"> • Software for all groups, recipes and opening of valves is included in the price - no extra future cost if your needs change • Flexible setup of irrigation groups • Up to 100 irrigation groups with up to 30 valves per group • Always delivered with mixing tank • Set-up of your own fertilizer recipes (up to 20) • Several starting options by additional choice of various sensors • Always delivered with mixing tank 	Irrigation & Fertilizer mixers
AMI Penta BIO-Mixer - For precise dosing of biomass based on flow of water		
	<ul style="list-style-type: none"> • Precise dosing of biomass (bio-fertilizers and beneficials /microorganisms) based on flow of water from the mixer to your cultures • Dosing of biomass can be done independently on EC and pH • Savings on working hours and use of biomass • Same features and benefits as the common AMI Penta Mixer 	Irrigation & Fertilizer mixers



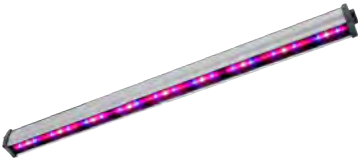


	Description	Product group
Climate Sensors - Correct measurement of actual plant conditions 	<p>These sensors measure</p> <ul style="list-style-type: none"> • Room temperature (RT10) • Light between 400-720 NM0 (Quantum sensor Q21) • Pot temperature (PF5 (PF10) • Flow temperature (E10) • Light in lux (Photo cell LF2) 	<p>Analog Climate Control & Electronic Climate Control</p>
EPA904 - Get alarms when the set limits for EC and pH are exceeded 	<ul style="list-style-type: none"> • Alarm unit for measuring EC and pH values in irrigation systems • Alarm at exceeded maximum and minimum values of EC and pH • External alarm to detect and respond to mechanical and human errors such as EC / pH inputs on the mixer • Readings directly from the unit • Readout on scale • Easy to set 	<p>Irrigation & Fertilizer mixers</p>
Fan for greenhouses - Uniformises the temperature and changes the humidity 	<ul style="list-style-type: none"> • Optimizes the micro climate for a healthier plant • Secures uniform temperature • Low energy consumption • Low operating cost • Ensures an excellent air circulation • Easy assembly • Robust and durable • Future-proof efficiency • Optimal design 	<p>Electronic Climate Control</p>

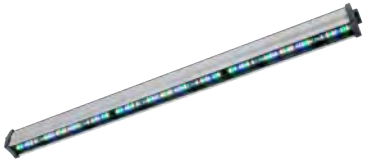
Description	Product group
<p>GW & GWM Membrane - Accurate irrigation for different requirements</p>  <ul style="list-style-type: none"> • For mist propagation, cooling, humidification, fine irrigation and irrigation • Economical system • Unique anti-drip function • Self-cleaning • Low water consumption • Built-in membrane and filter • Minimum of maintenance • Various variants 	<p>Mechanical irrigation</p>
<p>HS20 Bench Valve - For optimising of the table irrigation</p>  <ul style="list-style-type: none"> • Replaceable dosing nozzle • Robust product • Large Self-cleaning strainer • Ensures quick filling and draining • Minimum of maintenance • Nozzles can be drilled-up in diameter • Flexible design to meet your needs • Available in four standard sizes 	<p>Mechanical Irrigation</p>
<p>HSV10 & Return Valves - For flood-ebb irrigation in a single pipe system</p>  <ul style="list-style-type: none"> • Filling and draining with one valve only • Manual dismantling of tables • Self-cleaning • Developed for re-circulation systems • Ensures a regular filling of benches • Exact amount of water • Equipped with a dosing ball • Irrigation time and amount of water can be adjusted exactly for every need 	<p>Mechanical Irrigation</p>



	Description	Product group
LCC1 Climate Control - The basic one house climate control		
	<ul style="list-style-type: none"> • Increase production output and yield through accurate control • Prevent waste of energy and resources • Quick change between more languages on the display • Easy to operate with clear menus and function keys • More LCCs can be connected in a network • Ask for our separate data sheet to see all the technical functions such as the possibility of adding a rain- and light sensor or Day / night time zones with individual adjustment of temperature and humidity 	Electronic Climate Control
LCC1 Tunnel Climate Control - The basic one house climate control for tunnels		
	<ul style="list-style-type: none"> • Increase production output and yield through accurate control • Prevent waste of energy and resources • Quick change between more languages on the display • Possible to use in many different installations • Easy to operate with clear menus and function keys • Ask for our separate data sheet to see all the technical functions such as double plastic fan and manual operation of gear motor 	Electronic Climate Control
LCC2 Touch Climate Control - The extended one house climate control		
	<ul style="list-style-type: none"> • Increase production output and yield through accurate control • Prevent waste of energy and resources • The flexible solution with full software program included in the price • Access from mobile devices • Quick change between more languages on the user-friendly touch display • Possible to connect to SuperLink for analysis of data • See all the user-friendly technical functions on the separate data sheet 	Electronic Climate Control

	Description	Product group
LCC4 Climate Control - The high-capacity climate control for 1-16 compartments		
 <p>The LCC4 Climate Control unit is a rugged, industrial-grade device with a large, multi-touch color display. The screen shows a user interface with various icons for climate control functions. Below the screen, there are several physical buttons and a small circular indicator. The unit is mounted on a base with multiple connection ports.</p>	<ul style="list-style-type: none"> • Increase production output and yield through accurate control • Prevent waste of energy and resources • No software cost when adding more compartments • Access from mobile devices • Quick change between more languages on the user-friendly touch display • Software for Senmatic's LED fixtures is incl. • Possible to connect to SuperLink for analysis of data • See the great number of user-friendly technical functions on the separate data sheet 	Electronic Climate Control
Leaf Temperature Sensor - Keep an eye on the plant's well-being		
 <p>The Leaf Temperature Sensor consists of a long, thin, flexible blue cable with a black connector at one end. The cable is mounted on a silver-colored metal stand that has a circular base and a vertical pole. The sensor tip is positioned to measure the temperature of a plant's leaf.</p>	<ul style="list-style-type: none"> • Keep an eye on the plant's exact leaf temperature • Read off measurement in your LCC4 climate control • Keep track of the leaf temperature on graphs in SuperLink and change climate settings, if necessary 	Electronic Climate Control
LED FL100 Grow - Design the spectrum for individual crops		
 <p>The LED FL100 Grow light is a long, rectangular fixture with a silver-colored metal housing. It features a series of colorful LED chips along its length, emitting a spectrum of light. The fixture is designed for use in indoor growing environments.</p>	<ul style="list-style-type: none"> • Reduce climate footprint • Control of spectral composition • Dynamic control of the light intensity • Innovative solution for growing in layers for vertical farming • The natural replacement for the conventional HPS systems • Minimize the use of Plant Growth Regulation (PGR) • Long lifetime with no reduction of the light output • Save energy 	LED Lighting



Description	Product group
LED FL100 Grow White - Offers a full continuous spectrum	
	<ul style="list-style-type: none"> • Dynamic control of spectral composition and intensity • Long lifetime with no reduction of the light output • Consistent light on the plants due to a patented optical lens system • Energy saving • Better plant quality and higher output • Minimize the use of Plant Growth Regulation (PGR) • A minimal shadow footprint • Get a specific lighting plan
LED FL100 Sunlight - Matches the rays of the sun	
	<ul style="list-style-type: none"> • Dynamic control of light intensity • Spectral distribution similar to the sun • Consistent light on the plants due to an optical lens system (patent pending) • Long lifetime with no reduction of the light output • Colour recognition • Better plant quality and higher output
LED FL300 Grow - Powerful and suitable for hybrid solutions	
	<ul style="list-style-type: none"> • Dynamic control of spectral composition and intensity • Easy replacement of conventional HPS lights • Energy savings • Enables easy integration with climate control systems • Minimize the use of Plant Growth Regulation (PGR) • Long lifetime with no reduction of the light output • Control the growth of the plant




	Description	Product group
LED FL300 Grow White - Powerful and perfect colour recognition		
	<ul style="list-style-type: none"> • Dynamic control of spectral composition and intensity • Easy replacement of conventional HPS lights • Energy savings • Enables easy integration with climate control systems • Minimize the use of Plant Growth Regulation (PGR) • Long lifetime with no reduction of the light output • Control the growth of the plant 	LED Lighting
LED FL300 Sunlight - The sunlight replicating LED fixture		
	<ul style="list-style-type: none"> • Dynamic control of light intensity • Easy replacement of conventional HPS lights • Spectral distribution similar to the sun • Enables easy integration with climate control systems • Better plant quality and higher output • Long lifetime with no reduction of the light output • High colour recognition - makes it very suitable for e.g. garden centers and botanical gardens 	LED Lighting
LED Grow Horti		
	<ul style="list-style-type: none"> • A 245 W fixture available as both 230 V and 400 V • Easy installation with a plug-and-play solution • Available with 4 firm different light profiles • Latest diode technology, which provides low power consumption and increased efficiency • Predominantly emits white working light making it easy to see the plants colour • Connects to any climate control regardless of brand and supplier • Makes the change from HPS to LED very easy 	LED Lighting






	Description	Product group
LED Light Controller - Maintains the full control of your LED installation		
	<ul style="list-style-type: none"> • Control of fixtures based on light sum or dynamic light measured through a quantum sensor • More quantum sensors can be connected for optimizing of the light control • Control of light intensity in time zones • Dividing the LED installation into groups • Suitable for all Senmatic LED fixtures • Can be connected to either a Climate Controller from DGT by Senmatic or to one from another provider 	LED Lighting
LG25 Gear Motor - For smaller greenhouses and orangeries		
	<ul style="list-style-type: none"> • For high performance and quiet operation • Torque, output shaft: 20 Nm • Compact and quiet • Built-in limit switch function • Closed gear box - no maintenance • Long lifetime • Limit switch function - ensures the output shaft stops at the desired position • Can be supplied with 0-15 and 0-50 revolutions • Pulls up to 10 m polycarbonate window and up to 7 m glass window 	Mechanical Climate Components
LG120 Gear Motor - For medium sized greenhouses		
	<ul style="list-style-type: none"> • Torque, output shaft: 120 Nm • Compact - low weight • Multiple mounting solutions • No maintenance and silent operation • Completely closed design • High performance and long lifetime • Precision and safety • Easy mounting • Two types of coupling: Chain coupling and Profile coupling. • Pulls up to 50 m polycarbonate window and up to 40 m glass window 	Mechanical Climate Components




	Description	Product group
LG120 Gear Motor - for Sempleta		
	<ul style="list-style-type: none"> • Torque, output shaft: 120 Nm • Compact - low weight • Multiple mounting solutions • No maintenance and silent operation • Completely closed design • High performance and long lifetime • Precision and safety • Easy mounting • Two types of coupling: Chain coupling and Profile coupling. • Pulls up to 50 m polycarbonate window and up to 40 m glass window 	Mechanical Climate Components
LG240 Gear Motor - Gear motor for bigger greenhouses		
	<ul style="list-style-type: none"> • Torque, output shaft: 240 Nm • Compact - low weight • Multiple mounting solutions • No maintenance and silent operation • Completely closed design • High performance and long lifetime • Precision and safety • Small installation dimensions - easy mounting • Two types of coupling: Chain coupling and Profile coupling • Pulls up to 65 m polycarbonate window and up to 55 m glass window 	Mechanical Climate Components
LG403 Gear Motor - The ultimate system automation for large installations		
	<ul style="list-style-type: none"> • Torque, output shaft: 400 Nm • Maximum protection with safety stop, position end stop and torque stop • Torque stop settings are in five steps • Opening and closing torque are set simultaneously • Suitable for operation with the various existing rack and pinion systems • Developed for opening of top or side vents • Long lifetime • No maintenance • Pulls up to 120 m window 	Mechanical Climate Components






	Description	Product group
<p data-bbox="204 320 438 349">LG405 Gear Motor</p> 	<ul style="list-style-type: none"> • Torque, output shaft: 400 Nm • Double position end stop • Opening and closing torque are set simultaneously • Suitable for operation with the various existing rack and pinion systems • Developed for opening of top or side vents • Long lifetime • No maintenance • Pulls up to 120 m window 	<p data-bbox="1200 378 1353 479">Mechanical Climate Components</p>
<p data-bbox="204 925 1289 954">Mesur Hand Instrument - Combined EC, pH and temperature measuring instrument</p> 	<ul style="list-style-type: none"> • Simple one hand operation • Exact pH and EC measurement • Temperature compensation • Built-in memory to store the recent values • EC-readings are temperature-compensated • Compensates for the temperature dependence of the pH sensor • Developed for measuring under difficult conditions • Suited for normal daily use • Available in two models • Delivered with control liquids 	<p data-bbox="1200 985 1385 1055">Irrigation & Fertilizer Mixers</p>
<p data-bbox="204 1491 1102 1520">Mobile Bench Irrigation - Flexible Irrigation for mobile bench systems</p> 	<ul style="list-style-type: none"> • Flexible irrigation system • Built-in final emptying construction • Water filling in a splash-less jet • Quick and efficient draining of water • Triangle valve - easy to mount • Adjustable siphon valve 	<p data-bbox="1200 1552 1331 1621">Mechanical Irrigation</p>




Description		Product group
MS900C - The compact outdoor meteorological station		
 <p>The image shows the MS900C compact outdoor meteorological station. It consists of a white rectangular base unit with the EGT logo. A horizontal boom is attached to the top, holding various sensors including a temperature sensor, wind speed and direction sensors, and a rain sensor. The boom is made of steel and is designed for long life.</p>	<ul style="list-style-type: none"> • Temperature sensor protected against direct sunlight for precise measurements • Reliable operation and easy inspection • All sensors combined in one compact unit • Six high quality sensors are mounted on a boom made of steel, giving a long life time • Measurement of temperature, wind direction, wind speed, solar radiation, light intensity and rain • Long lifetime of the quality sensors • Maintenance-free • As an option, outdoor humidity can also be measured 	Electronic Climate Control
Rack & Pinion - A vent opening system		
 <p>The image shows the Rack & Pinion vent opening system. It consists of two metal brackets, one straight and one curved, connected by a flexible cable. The brackets are designed to be attached to a vent opening, allowing it to be opened or closed remotely.</p>	<ul style="list-style-type: none"> • Long life time - up to 30 years • Low weight without reduction of the strength • The strongest rack on the market - made of aluminum • Reinforcement of aluminum at all points of attachment • Low noise level • High flexibility • Minimum of maintenance • Curved or straight rack • Considerable strength • Available in many lengths 	Mechanical Climate Components
Remote alarm - For warning when setpoints are not within the specified range		
 <p>The image shows the Remote alarm unit. It is a black rectangular device with a digital display screen and a numeric keypad. Below the keypad are several indicator lights and buttons. The unit is designed for monitoring and alarming when setpoints are not within the specified range.</p>	<ul style="list-style-type: none"> • Can be connected to air temperature sensor, flow temperature sensor and humidity sensor • Can be connected to SuperLink • High and low priority alarms with flexible time and day setup • 8 to 20 analog inputs • 6 digital inputs for detection of other alarms • Industrial PLC technology • Available in 4 variants 	Electronic Climate Control



Description	Product group
<p>R0-Motor Relays R0901 & R0902 - Relays with built-in time delay</p>  <ul style="list-style-type: none"> • Manual operation of gear motor for shading or ventilation • Can be delivered for various voltages • Overload switches up to 10 Amps • Power relay for control from, for example, climate controls • Master relays for 1 or 2 gear motors • R0901 and R0902 can be extended with MR102 fire relay 	<p>Analog Climate Control</p>
<p>RTF-6 / RTFC-7 - Combined sensor for measuring weather conditions</p>  <ul style="list-style-type: none"> • Active air circulation / fan ensures air flow for precise measurement • Reliable operation and easy inspection • Long lifetime of the quality sensors • Maintenance-free • The sensor gives the best possible reaction time on temperature deviations • The humidity sensor is fully electronic with a teflon filter protection and is maintenance free • The Co2-sensor is working with infrared absorption (on the RTFC-7) 	<p>Electronic Climate Control</p>
<p>Sempleta Climate Control - Control of room temperature and shade</p>  <ul style="list-style-type: none"> • Perfect control for small greenhouses • Simply attach a temperature or climate sensor • Choose between automatic and manual control • Precision automatic temperature and luminosity control • Selection of automatic or manual operation 	<p>Analog Climate Control</p>

	Description	Product group
Start tray / drain tray - Lets the plants decide the irrigation		
	<ul style="list-style-type: none"> • Irrigation control of cultures grown in rock-wool or perlite • Exact dosing of water and fertilizer • Registration of irrigation by connecting to SuperLink • Control of the desired drainage percentage • Saves water • Ensures the surplus nutrients and root exudates are not accumulated in the slabs • Possibility of collecting data by connecting to the SuperLink program 	Irrigation & Fertilizer Mixers
SuperLink 6 - Central software for control and remote control		
	<ul style="list-style-type: none"> • Can be connected to DGT by Senmatic's Climate Controls and Fertilizer mixers • Quick collection and storage of data • Calendar function for planning of future actions • Climate recipes for quick changes • Flexible graphical design • Transfer of data to one or more departments • Your own naming of eg. heating valves, windows, screens etc. • Possible to add set-points to a favorites list • Available in many languages 	Software
UV Water Treatment - Environmentally friendly and careful disinfection		
	<ul style="list-style-type: none"> • Water treatment without the use of chemicals • Does not influence the natural composition of the water • Reduces the risk of infection • Provides safety when using recirculating water • Low-pressure lamps with UV-C light - emit less heat than high-pressure lamps • Approved UV sensor • Available in different types and sizes for every need 	Water Purification



Description		Product group
VA60-8 Irrigation Controller - Manual and automatic differential irrigation		
	<ul style="list-style-type: none"> • Exact control of irrigation • Easy to operate • Controls up to 8 valves • Low priced - high-quality • Available with watch • Separate start for each valve • Alarm and stand-by as safety function • Adjusted to the plant's need 	Irrigation & Fertilizer Mixers
VA Penta Irrigation Controller - For control of irrigation valves		
	<ul style="list-style-type: none"> • Integrated software - therefore no extra cost for an extension • Adjusted to your language • Flexible setup of irrigation groups • Advanced control of plant growth • User-friendly touch display • Large capacity and flexibility • Focus on the plant's need • Irrigate up to 200 valves in up to 100 groups by start of up to 2 pcs pressure pumps on the mixer • Sun integrator and drain control 	Irrigation & Fertilizer Mixers
WV3 Heat Valves - Reliable 3-way regulation valve		
	<ul style="list-style-type: none"> • For control of hot water heating systems • Overload protector • Supplied as either threaded or flanged valves • All counter flanges conform to DIN 2633 • Manual operation • Can be supplied in several dimensions 	Mechanical Climate Components



HORTICULTURE

HARVEST YOUR FULL BUSINESS POTENTIAL

Founded under the name DGT (Danish Greenhouse Technology) in 1956, we bring more than 65 years' experience to the table. In 2004, DGT was acquired by Micro Matic and placed under Senmatic and in that connection renamed to Senmatic. As of today, the two names have been combined and we are now known as DGT by Senmatic.

We develop sustainable technology solutions for modern horticultural production, ranging from greenhouses and garden centers to large-scale vertical farms and research facilities.

We specialize in controller technology for optimization of crop growth and product efficiency, and deliver complete and configurable solutions for horticultural applications, such as electronic and mechanical climate control, irrigation and fertilizer mixing, and horticulture LED grow lights. We also offer full line solutions built from our wide and deep product range.

Our product range provides 360° management of your installation - from complete climate control solutions and flexible fertilizer mixing systems to management software and powerful LED fixtures delivered as single product solutions or full line solutions. We have an outside-in perspective: we develop products with customers for customers.

Reliability, user friendliness and the possibility of combining and configuring our systems and products keep us at the forefront of the horticultural industry. Our controls are all tested on-site at commercial greenhouses during development.

Put simply, we develop state-of-the-art products with long life spans that improve your return on investment.

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