Company Profile

of

WALNUT



The company

WALNUT is an innovative company in the dosing systems industry. WALNUT offers innovative products for remote monitoring and control of the dosing process at real time, using permanent connectivity to the internet. Using our Web services you can monitoring and control our dosing systems at lowest cost. WALNUT offers a wide selection of control instruments and accessories. Our professional staff is committed to serving your dosing needs. At WALNUT we develop our products based on our customer's wants and needs. All of our products are thoroughly tested by our internal quality assurance personnel, prior to shipment. We believe our customers deserve to receive only the highest quality products.



Manufacturing

Quality and Flexibility are our "driving words" in the production facility.

WALNUT manufacturing processes follows the state of the art technologies. Our production lines use the most advanced technologies to ensure the highest quality of our products.

Our assembling procedures and tests, together with our test benches, assure that 100% products we manufacture are working at the maximum working conditions they are designed for.

Our assembling procedures require that 100% of the products we manufacture are tested at the most severe working conditions.









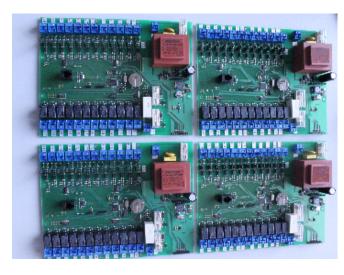
R&D and innovations

WALNUT belives that innovation is the key to success. WALNUT thinks that innovation is about making positive change. It's finding creative new ways to tackle problems, react to change, or make something better. Our R&D department works to offer high quality products, to optimize costs, significantly reduce the time to market and meet all customer's needs.

Products

Dosing systems

MOCO



MOCO is monitoring and control dosing system with following **features**:

- Permanent internet connectivity via GPRS or Ethernet/WiFi
- Up to 12 input signals
- Up to 12 pumps
- Output supply 24V AC or external supply
- Two operational modes: relay mode and formula(program) mode
- Events history 400 events in formula mode or 1700 events in relay mode
- High security MOCO implements high level of security, using asymetric encryption algorithms.
- One click configuration.
- Creating a program with one click.
- Automatic synchronization.

Technical specifications:

Voltage / Frequency	220 – 230V AC / 50 – 60 Hz
Power	10VA
Signal Supply	20-240V AC
Outputs	8A – 250V AC, 8A – 30V DC
Control Circuitry	32bit ARM Cortex-M3 microcontroller; 2 digits LED keyboard; GPRS/Ethernet/WiFi communication module; program start on control signals.
Number of inputs	12 (galvanically isolated)
Number of outputs	12
Enclosure	IP 55, ABS thermoplastic, color - white
Dimensions (mm) (H x W x D)	240 x 190 x90
Weight	1.0 kg

DS108





DS108 is monitoring and control dosing system with following **features**:

- Permanent internet connectivity via GPRS or Ethernet/WiFi
- 2 input signal
- Up to 8 pumps
- Output supply drives up to 8 pumps
- One operational mode: program mode
- Events history 570 events (when connection is missing)
- High security no plain data is transferred across the network.
 DS108 implements high level of security, using asymetric encryption algorithms.
- One click configuration.
- Creating a program with one click.
- Manually upload programs.

Technical specifications:

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Voltage / Frequency	220 – 230V AC / 50 - 60 Hz
Power	35W
Signal Supply	24V AC, 160 -240V AC
Outputs	1.45A (@ 24V DC)
Control Circuitry	32bit ARM Cortex-M3 microcontroller; 2 digits LED keyboard; GPRS/Ethernet/WiFi communication module.
Number of inputs	2 (galvanically isolated)
Number of outputs	8
Enclosure	IP43, ABS thermoplastic, color - white
Dimensions (mm) (H x W x D)	200 x 158 x 64
Weight	1.0 kg

DS02GP



DS02GP is monitoring and control dosing system with following **features**:

- Permanent internet connectivity via GPRS.
- 1 input signal.
- Up to 2 pumps.
- Two operational modes: relay mode with correction and simple mode.
- High security no plain data is transferred across the network.
 DS02GP implements high level of security, using asymetric encryption algorithms.
- Events history 176 events (when connection is missing)
- USB connection + standalone desktop application for configuration (only in simple mode).

Technical specifications:

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Voltage / Frequency	220 – 230V AC / 50 - 60 Hz
Power	10VA
Signal Supply	160 -240V AC
Outputs	0.3A (@ 24V DC)
Control Circuitry	32bit ARM Cortex-M3 microcontroller; GPRS communication module; USB connection;
Number of inputs	1 (galvanically isolated)
Number of outputs	2
Enclosure	IP43, ABS thermoplastic, color - white
Standard	UL-94-V0
Dimensions (mm) (H x W x D)	130 x 100 x 45
Weight	0.5 kg

Pumps



Peristaltic pumps provide excellent solving pumping problem solutions especially when the product being pumped particularly abrasive, is corrosive or viscous. Their lack of valves, seals and glands makes them inexpensive to maintain the only maintenance item is the hose or tube. Lastly, the only part of the pump in contact with the fluid being pumped is the interior of the tube or hose, making it easy to sterilise and clean the inside surfaces of the pump

Technical Specifications:

Voltage / Frequency	220 – 230V AC / 50-60 Hz
Power	4.5VA
Enclosure	IP43, ABS thermoplastic, color - white
Standard	UL-94-V0
Dimensions (mm) (H x W x D)	130 x 100 x 45
Weight	0.5 kg

Software

http://dosingsys.com

DOSING SYSTEM

Washing machine



Dishwasher



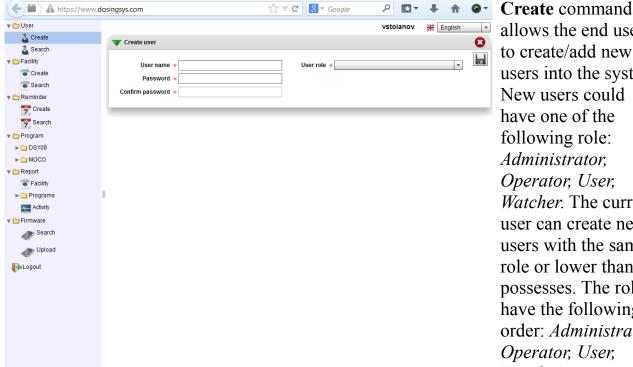


Download mobile application

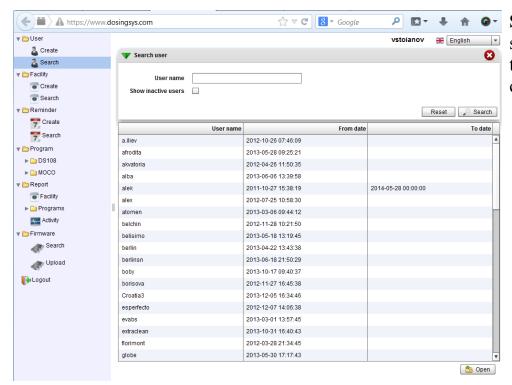
Smart monitoring and control

WALNUT develops WEB based application software for monitoring and control of all dosing systems with internet connection (GPRS/WiFi/Ethernet). The application has user friendly interface and the users can monitor or control their dosing systems with a single click. The application offers variety of reports and exports to XLS or CSV file formats. The application offers high level of security (based on HTTPS application protocol), especially over unencrypted networks (such as WiFi), as anyone on the same local network can "packet sniff" and discover sensitive information.

Users

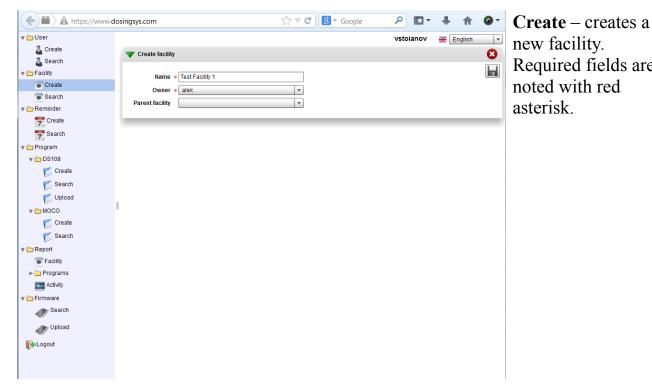


allows the end user to create/add new users into the system. New users could have one of the following role: Administrator, Operator, User, Watcher. The current user can create new users with the same role or lower than he possesses. The roles have the following order: Administrator. Operator, User, Watcher

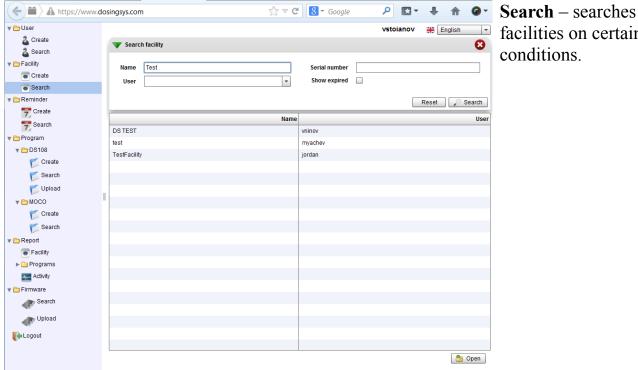


Search command shearches users of the system by given conditions.

Facility

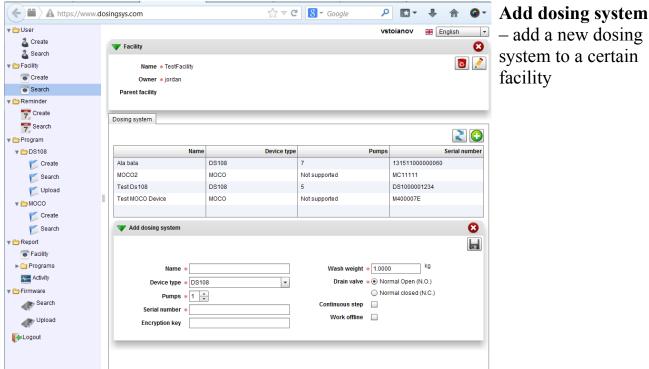


Required fields are noted with red asterisk.

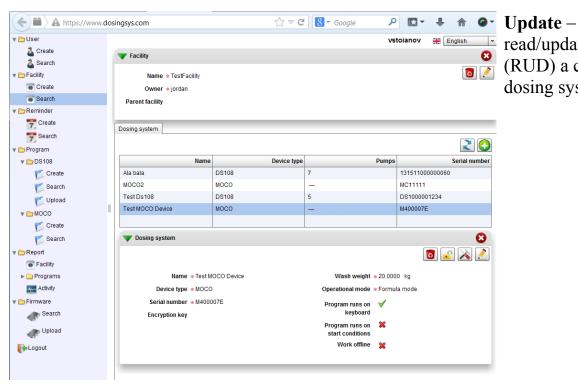


vstolanov Reglish facilities on certain conditions.

Devices

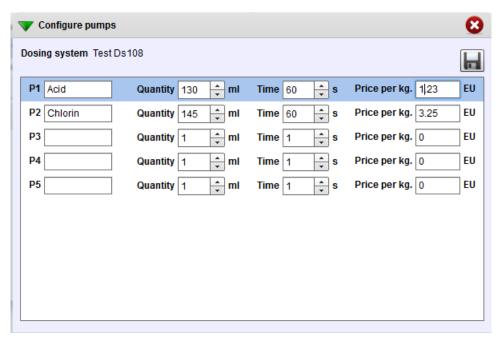


system to a certain

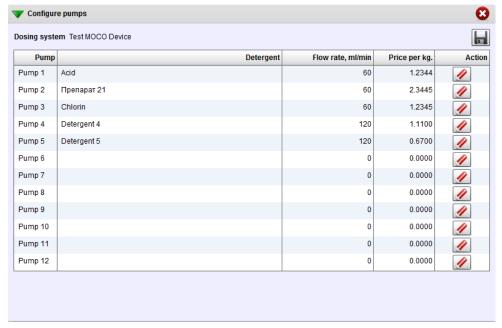


vstolanov English read/update/delete (RUD) a certain dosing system.

Pumps



DS108 – Configure pumps

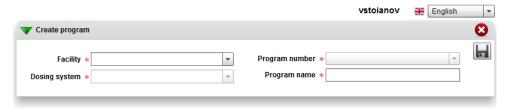


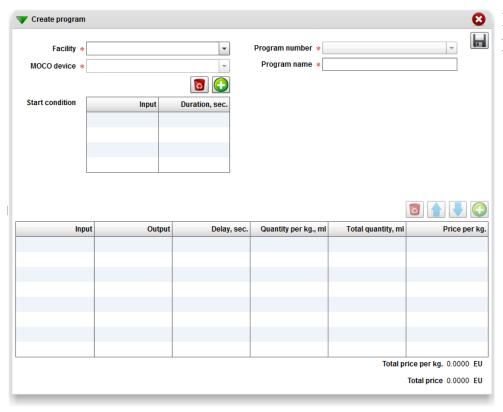
MOCO − Configure pumps.

Programs

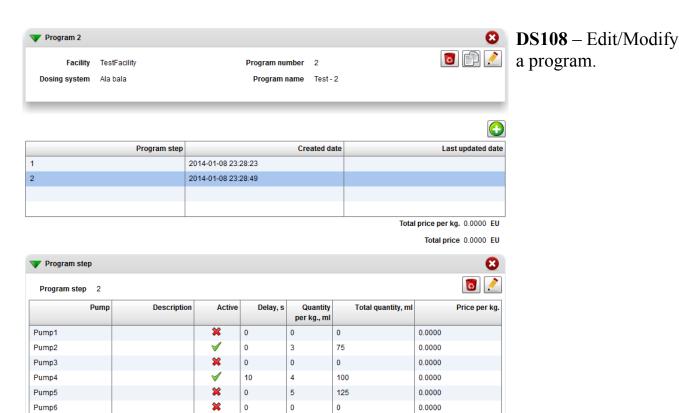
Exists two type of programs: DS108 programs and MOCO programs.

DS108 – Create a program.





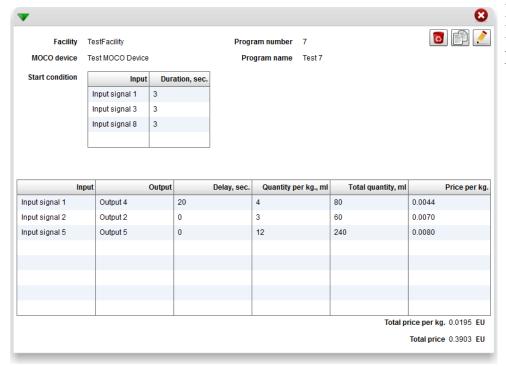
MOCO – Create a program



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Pump7

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MOCO – Edit/Modify a program