

DCS

Otomasyon ve Kontrol Sistemleri & Yazılım ve Donanım Mühendisliği



Distributed Industrial Control Systems
ENGINEERING &
Consulting Services



www.dcsteknik.com

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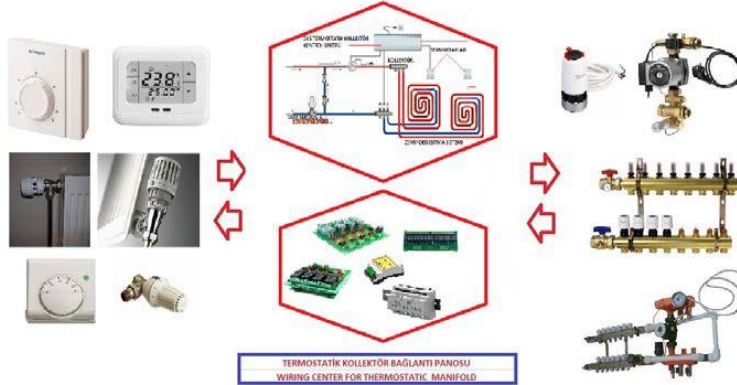
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ENERGY - SOLENOID - VALVE - VALVE - MOTOR CONTROL UNITS



muhtelif tür solenoid vana sistemleri

Smart Home Systems; You can use it in lighting automation and heating automation, energy control, lighting systems, motor controls, irrigation control systems and many other applications.



Solenoid valve units are connected to the main controller with a cable and control is performed via this cable.

Each Solenoid valve unit supply (8-42 VDC) and Solenoid unit control output is provided via this controller.

The largest main controller unit with 8 inputs and 8 outputs can perform 8 zone control with 8 solenoid units.

In the solenoid valve units to be used, the control signal output should be in the range of 8-15VDC and this is sufficient for the system to operate.

The input signal to the standard solenoid control unit is wired and can be at the level of 8-15VDC. There are up to 8 solenoid signal inputs, up to 8 solenoid control or solenoid valve control outputs. Outputs are provided via relay contacts and can be up to 5A / 230 VAC.

With the control module, up to 8 separate electric valves in the collectors in your central heating system or combi system can be opened and closed. Thus, it is possible to adjust the temperature in the room that each electric valve reaches.

Applications;

ON / OFF application in all types of solenoid controlled valve control systems

MOTOR ON / OFF application in all types of solenoid controlled valve control systems

With DCSTEKNİK Valve-Solenoid control units, ON / OFF control can be performed, and with DCSTEKNİK PROPORTIONAL and LOCKING SOLENOID CONTROL units, remote proportional control of valves or valve systems can be provided whenever desired.

Solenoid control units can be used wired in local applications, as well as wirelessly and remotely, and we also have Solenoid control units that can be used over Wireless GSM or RF ISM bands.

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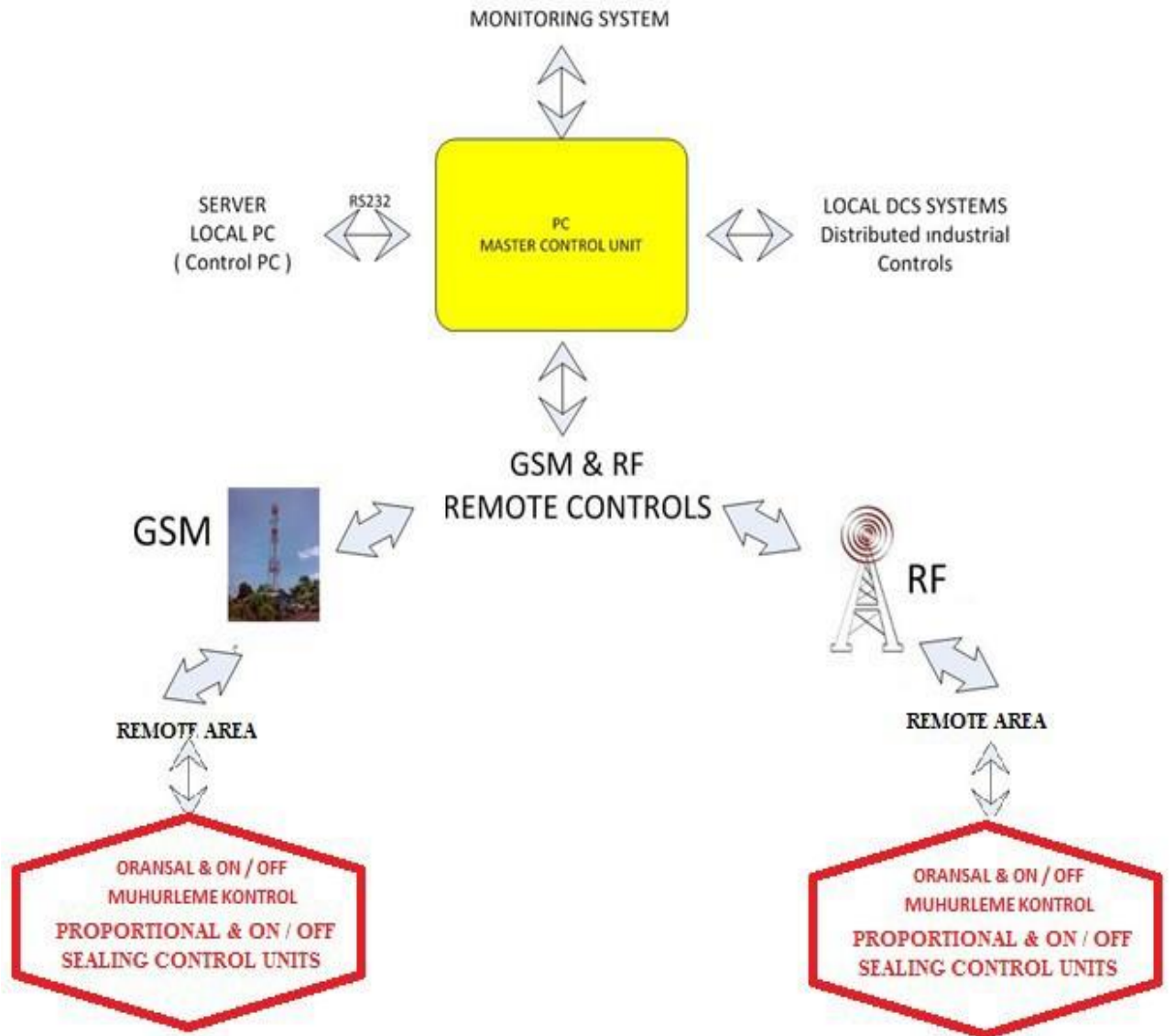
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With RF ISM, in open areas with a radius of 1 km to 60 km, from anywhere with GSM network communication

Plug and Play Systems that can provide field control in remote areas

DCS RF GSM RTU Series Wirelessly Controls, Remotely Monitors, Gives You Wireless Information, Provides Remote Monitoring and Management, Provides You with Reporting Opportunity



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DCSTEKNİK ON / OFF CONTROL

5 – 30VDC INPUT, 220AC /10A OUTPUT CONTROL UNIT

4 – 8 AND 12 Channel 10A high power on/off multi-channel relay output device:

Applications;

All kinds of residential applications

ON / OFF application in all kinds of solenoid controlled valve control systems

MOTOR ON / OFF application in all kinds of solenoid controlled valve control systems

Smart Home Systems; It is designed to be used for on-off control for lighting automation and heating automation.

With socket control, it can turn on and off the electricity going to products such as air conditioners, combi boilers, TVs, satellites, electric stoves, irons, lampshades, and when necessary, it can also be used in motor, lighting, heating, irrigation systems.

Easy installation with rail mounting, 10A load capacity for each channel, (maximum 16A load capacity)

- Individual temperature control is provided for each room.
- The circulation pump is controlled by the main controller, ensuring that the entire system works in harmony.
- Increased heat pump efficiency and trouble-free use.
- In order for the system to reach the regime conditions well, it is recommended to use an accumulation tank between the heat pump and the heating system.

Specifications:

Power input : DC24V

Static BUS power consumption : 20
mA/DC24V

Dynamic BUS power consumption:
40mA/DC24V

Output channel : 4 – 8 or 12

Output Channel / 10A (Max 16A) Load
capacity on each channel: 10A

Relay unit life:> 60,000

Installation: Mountable on 35mm DIN rail.

Relay loading capacity: < 150µF

Working Conditions:

Protection Class: IP20

Working Temperature : 0~50°C

Working relative humidity : 30%~90%

Storage Temperature : -40°C~+55°C

Storage relative humidity : 15%~93%



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Functions:

4 Channel relay output unit

4-8 or 12 separate zone control can be provided.

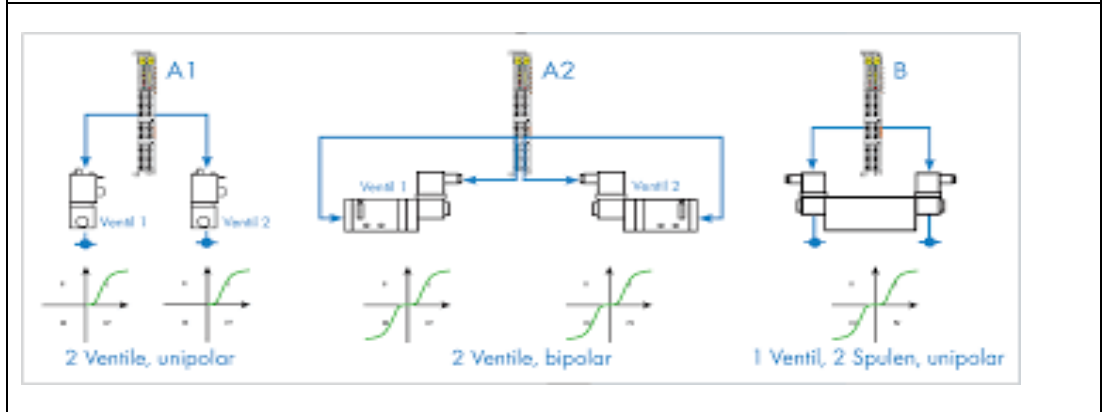
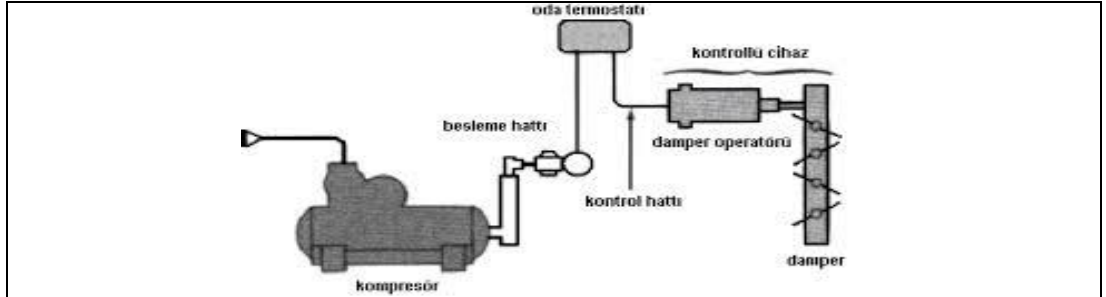
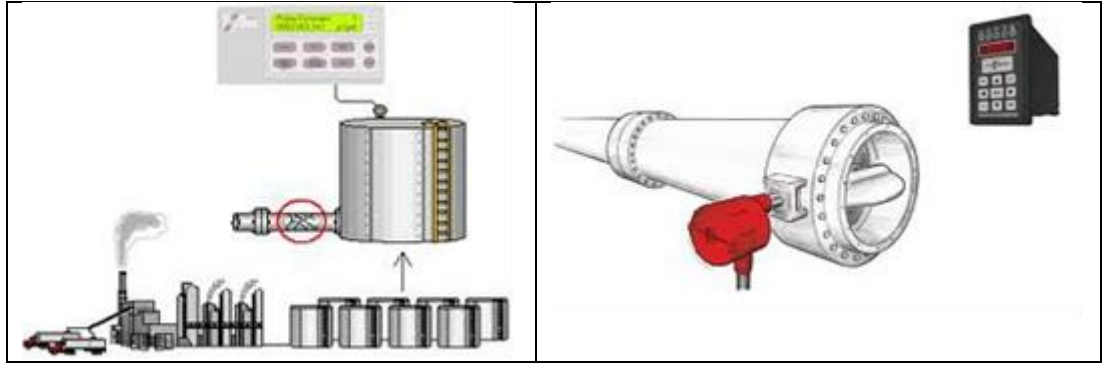
LED display for each channel, manual on/off control key

Remote programming and management capability

In local applications, we have control units that can be used wired, as well as wirelessly remotely, and can be used over Wireless GSM or RF ISM bands.

Relay outputs are produced in two different types and models, NORMALLY OPEN CONTACT or NORMALLY CLOSED CONTACT output and system supply is 220 VAC or 24V AC.

All models have 220VAC / 10A relay output. System Supply can be selected as 220 VAC or 24V AC.



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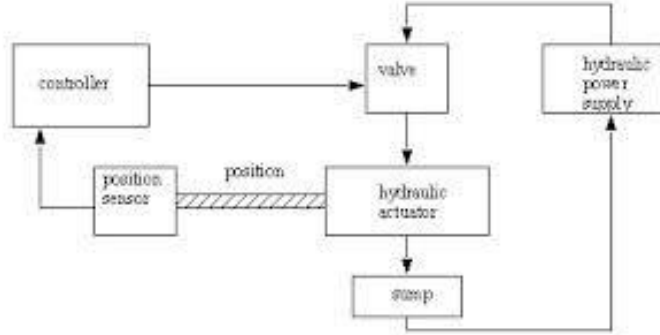
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DCSTEKNİK

ON / OFF - Proportional and PWM and Frequency Control Modules



In hot or cold water, chemical liquid fluidity flow and consumption controls, in motor speed controls, in lighting and energy control units

- Adjusting the flow at the desired flow rate
 - Ensuring consumption control in a certain time interval
 - Keeping consumption, flow information in the system eeprom memory
 - Remote updating and monitoring of consumption, flow information
 - Min - Max limit setting
 - Active - passive digital input
 - Alarm output (with relay)
- can be given as basic functions.

Merkez kontrol ünitesi üzerinden , kontrol edilmesi istenen uzak alan noktasına RFISM veya GSM haberleşme modülü üzerinden sistem aç/kapat komutu ,oransal hız verisi (% hız oranı) gönderilir. •İLERİ / GERİ MOTOR KONTROLÜ •ON / OFF KONTROL •ORANSAL KONTROL (%0 -100) , İLERİ / GERİ •GSM & RF UZAKTAN KONTROL	  	Uzak alanda konumlandırılan alıcı ünitesi ise ,merkezden aldığı aç/kapatkomutu yanısıra motor hız kontrol ünitesine istenen oransal hız bilgisi ile (0-5 VDC hız kontrol sinyali veya ,max Max 4 KHz lik PWM hız kontrol sinyali invertör girişi için) kontrol ünitesine bağlı olan motor sistemlerinde hız kontrolü ve motorun açma ve kapatma işlemi gerçekleştirilebilir. Invertör girişi için • Ek ünite ile 0-10VDC çıkış • Ek ünite ile - 0-20 mA çıkış sağlanabilir
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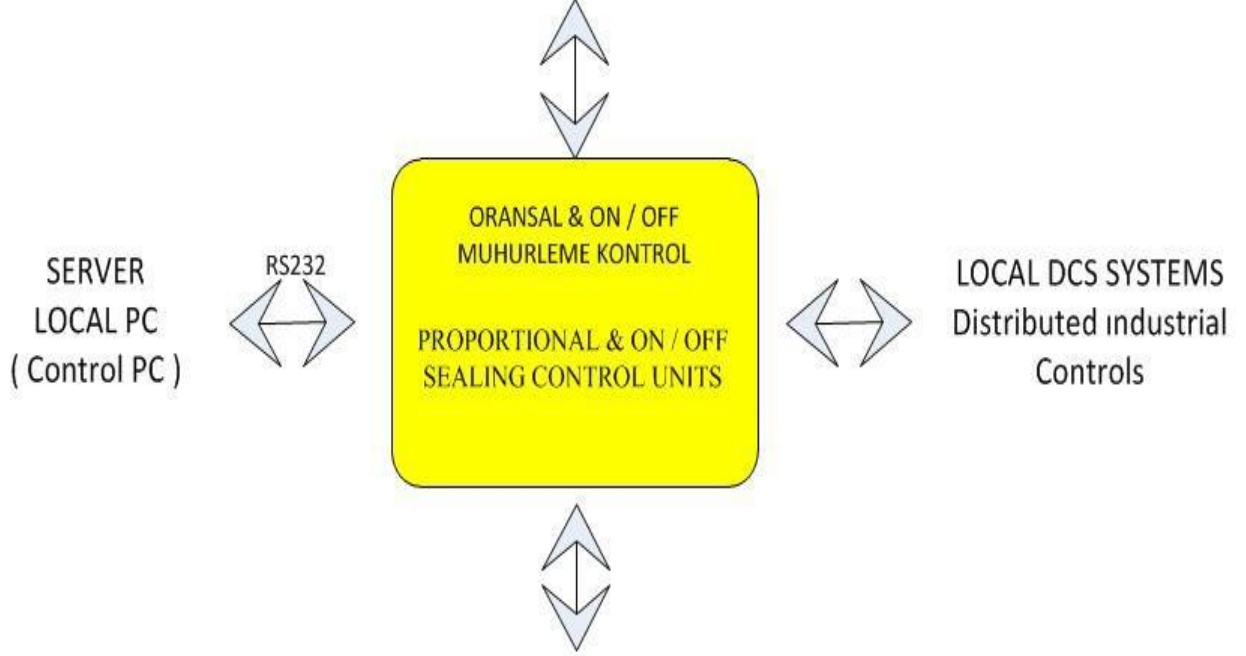


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MONITORING SYSTEM



GSM & RF REMOTE CONTROLS

- İLERİ / GERİ MOTOR KONTROLÜ
- ON / OFF KONTROL
- ORANSAL KONTROL (%0 -100) , İLERİ / GERİ
- GSM & RF UZAKTAN KONTROL
- EXT. SENSÖR GİRİŞİ (ORTAM ISI ÖLÇÜMÜ)
- EXT. SENSÖR GİRİŞİ (ORTAM BASINÇ ÖLÇÜMÜ)
- EXT. SENSÖR GİRİŞİ (DEBİ ÖLÇÜMÜ)
- RS232 İLE LOKAL HABERLEŞME
- 5VDC DİJİTAL SİNYAL GİRİŞİ (İKİ ADET)
- 12VDC / 220VAC RÖLE ÇIKIŞI (İKİ ADET)
- ANA KONTROL İŞLEMCI MICROCHIP PIC16F8XXX RISC İŞLEMCI
- HARİCİ TAKVİM (2100 YILINA KADAR)
- HARİCİ BELLEK DRAM 1MB EXT YAZILABİLİR & SİLİNEBİLİR HAFIZA
- ICSP PROGRAMLAMA PORTU
- LCD DISPLAY KONNETOR BAĞLANTISI
- RF & GSM HABERLEŞME COMM. PORT ÇIKIŞI
- FORWARD / REVERSE CONTROL
- ON / OFF control
- PROPORTIONAL CONTROL (0% -100), UP / DOWN CONTROL
- GSM & RF Remote Control
- EXT. SENSOR INPUT (TEMP MEAS)
- EXT. SENSOR INPUT (PRESSURE MEASUREMENT)
- EXT. Sensor input (flow measurement)
- RS232 COMMUNICATION WITH THE LOCAL
- DIGITAL 5VDC signal input (two Ch)
- 12VDC / 220VAC RELAY OUTPUT (two Ch)
- MAIN CONTROL PROCESSOR PIC16F8XXX RISC processor MICROCHIP
- EXTERNAL SCHEDULE (until 2100)
- EXTERNAL MEMORY 1MB DRAM MEMORY , WRITEABLE & CLEARABLE
- ICSP programming port
- LCD DISPLAY CONNECTION PORT
- RF & GSM COMM COMM. PORT

*** Images used may vary from the original.***

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