DCU CONTROL SYSTEM

UNIVERSAL
OPEN
LOW-COST
ADVANCED

HOBBY
RESEARCH
EMBEDDED
INDUSTRY
HVAC/BUILDING

WWW.PROSYSTEMY.SK
**EMBEDDED REAL-TIME CONTROL**

**THROUGH CONTROL OF EXPERIMENTAL AND HOBBY TECHNOLOGIES**

**DOWN TO COMPLEX PROCESS CONTROL**

**ADVANTAGES**

- Highly scalable - performance/price flexibility
- All software free
- Supports Win/Linux/Mac/Android
- Open-source software platforms
- Free user support
- Most advanced design/optimization techniques
- Optimal cost/performance ratio
- Low investment costs
- Low installation costs + optimal performance
- Customer is not dependent on manufacturer
- Implementation simplicity
- Optimal and reliable control of technology
CONTROL SYSTEM STRUCTURE

VISUALIZATION / SCADA
- Visualization web-pages

APACHE
- Visualization platform: PHP/Apache or PHP/Lighttpd

MySQL
- Database system

APPLICATION INTERFACE
- Java

OPERATING SYSTEM
- PC / miniPC / industrial PC / notebook / server / microserver / tablet

NETWORKING
- Wireless access point
- LAN / WAN network
- UTP/FTP cable
- Switch
- Router
- Ethernet technology
- Wireless technology
- UDP/TCP/IP
- Internet

REAL-TIME CONTROL
- Dynamic Control Units (DCU) / Intelligent Modbus devices / Modbus I/O modules

Hard real-time system / Sampling from 1ms / Precision 64-bit floating-point / Modbus RTU / Ethernet/TCP/UDP/IP / Analog inputs/outputs / 0-10V, 0-20mA, NTC/PT/Ni / Digital (binary) inputs/outputs / Contact/24VDC / Power supply 12-24VAC / 13-36 VDC
### DCU5810 (standard configuration)
- Sampling from 1ms
- 64-bit floating point precision
- 16 x analog inputs 0-10V, 0-20mA, NTC/PT/Ni, ...
- 8 x analog outputs 0-10V, 0-20mA
- 32 x digital inputs/outputs contact/24VDC/relay
- Modbus RTU
- TCP/UDP/IP Ethernet
- Power supply 12-24VAC / 13-36 VDC
- **1 070€** (excl. VAT)

### DCU2810
- Sampling from 1ms
- 64-bit floating point precision
- 8 x analog inputs 0-10V, NTC/PT/Ni, ...
- 4 x analog outputs 0-10V
- 8 x digital inputs contact
- 8 x digital outputs 24VDC
- Modbus RTU
- TCP/UDP/IP Ethernet
- Power supply 12-24VAC / 13-36 VDC
- **490€** (excl. VAT)

### MINI-PC SERVER
- Mini-PC pre-installed as a control design and visualization server for monitoring more than 500 inputs/outputs.
- Linux Ubuntu
- Java/PHP/MySQL/Apache
- User Command Center
- Visualization/SCADA - standard web pages
- Scilab/Xcos
- from 2GB RAM
- from 64GB SSD
- **from 280€** (excl. VAT)

### TOUCH PANEL (TABLET)
- Touch panel ready for process monitoring and visualization
- Screen size from 7" to 21"
- Android
- User Command Center
- Visualization/SCADA - standard web pages
- from 2GB RAM
- from 8GB SSD
- **from 69€** (excl. VAT)

### SERVICES
- Guidance in design, implementation and optimization of control systems
- Control system design and programming
- Control system optimization
- Control system mounting and installation

### MORE INFO ON:
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