



DOROT DIGITAL SOLUTIONS

ConDor Controller



AUTONOMOUS AND AUTOMATIC
HYDRAULIC VALVE CONTROLLER

PRODUCT BROCHURE

ANY VALVE EVERY FUNCTION ONE CONTROLLER

The ConDor is an automatic and autonomous system enabling hydraulic control valves to perform any function or combination of functions, whether constant or dynamically modulating, via local and remote control.



Remote & Local control: change values & functionality via smartphone or website



Cellular and Bluetooth Communication



Several Active Hydraulic Functions Configured Simultaneously



MODBUS & OPC Protocol Support - for seamless SCADA system integration



Proprietary Cloud-Based Command & Control System SKYplatform (mini-SCADA)

The ConDor is the only real flexible system that puts the power in the hands of the network owner to perform his own concept of hydraulic control for each specific case, being completely independent of programmers or supplier services.

UNIQUE FEATURES UNLIMITED FUNCTIONS

- **Can be configured to perform any hydraulic function or combination of several functions simultaneously:**
 - Dynamic pressure reduction
 - Mixing junction output control
- **Define any pressure regulating valve and combinations:**
 - Pressure Reducing
 - Pressure Sustaining
 - Flow Control
 - Pressure Reducing - Pressure Sustaining
 - On/Off in relation to flow, pressure, sensor input (chlorine levels, turbidity, salinity, contaminants, etc.).
- **Configurable in a few simple steps in seconds**
- **Can be used for position control:** Imitate the action of motorized valves
- **Unlimited freedom to create one's own control OR Download a pre-defined configuration**

Any combination of functions controlling hydraulically influenced parameters, within a variety of liquid systems including, but not limited to, the following:

Pressure Control (upstream, downstream, and remote point)	Flow Control & Level Control	Control of Nitrate Level (Salinity, Turbidity, Temperature)*
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Each and every one of the functions can be dynamically modulated by:

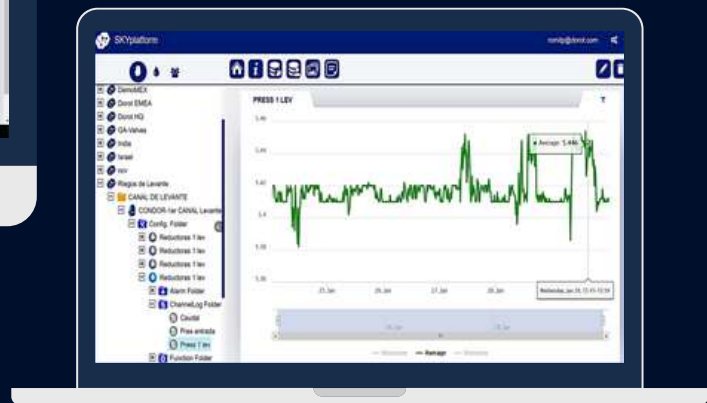
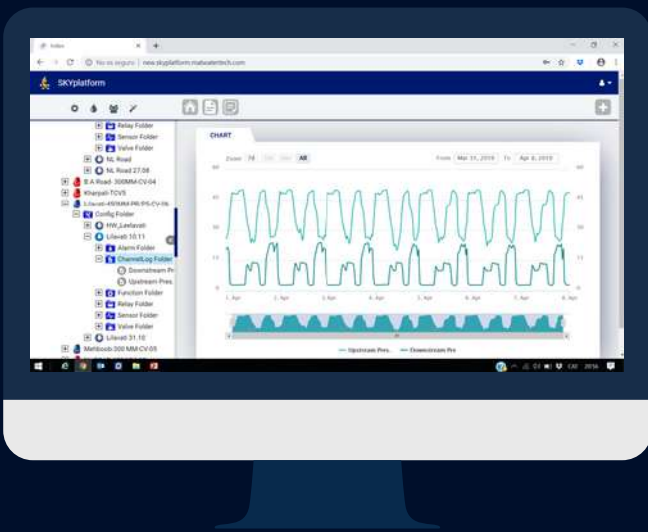
 Remote Control	 External Contact Status	 Time	 Other Measured Valve**
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* Any other parameter that can be electronically sensed & be controlled by a valve.

**Example: pressure setting modulated by flow

UNLIMITED CONTROL

As part of an integrated system, through the SKYplatform, a SCADA software based in WEB architecture, the ConDor offers unlimited control functions, providing the ability to create and change any valve applications and configure the functions remotely.



- Users Management
- Projects Management
- Reporting
- Alerts Management
- Multi-Variable Graphs
- Show and Export Datalogger Information
- Enable User Remote Operations
- ConDor's Configurations Management
- Show Connected ConDors and their status



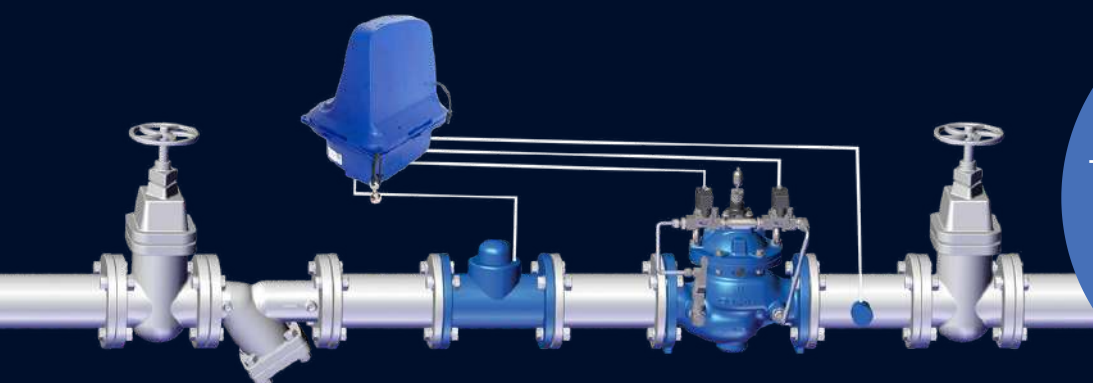
TYPICAL APPLICATIONS

Municipal and National Water Distribution Systems:

- Pressure Management
- SCADA System's Control
- Control of Tanks & Reservoirs
- 24/7 Projects
- Water Treatment & Desalination Plants
- Hydro Power Generation
- Cooling Systems in Power Plants & Other Industrial Applications

Mining:

- Cooling Water in Deep Mines
- Dust Mitigation



ConDor
Typical Installation
with Dorot 300
Series EC Valve

TECHNICAL SPECIFICATIONS



INPUTS

- 4X Analog 4-20mA
- 6X Digital
- 2 TTL frequency inputs optocoupler



OUTPUTS

- 2X 12VDC continuous solenoid valves
- 2x Latching (pulse) solenoid valves
- 1X Configurable alarm latch relay
- 1X Configurable general purpose latch relay



COMMUNICATION

- Modbus RTU partner on RS485
- Integral cellular communication (2G/3G/4G), radio antennas
- Local communication via Bluetooth



ENCLOSURE

- IP65 or IP68 per customer requirements
- Multi-color LED
- May be supplied with portable UI monitor & control device
- Reinforced UV protected plastic casing
- Environment temperature: -20 to +60°C (-4 to +140°F)



POWER SUPPLY

- 12VDC
- Include internal backup battery and charger
- Can use solar panel or flow-driven generator as power supply and protected from reverse polarity and short circuit



POWER CONSUMPTION

- 0.35 - Watt standby
- 0.35 Watt momentary



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TESTIMONIALS

"ConDor was installed at 3 different sites, permitting regulation of two water supplies, and resulting in the correct level of salinity and maximizing cost efficiency. In the field, the systems work without any support. We want to go further (...)"

Lonny Scheib - Date Fields Manager, Ketura, Israel

"First and foremost, with our new ConDor, I gained peace of mind! Since we fill our 250m3 reservoir 4 times a day, we can lose over \$2,000 every 24 hours – and before installing the ConDor, this happened only 7 times last year – we lost \$14,000! With our new ConDor, we expect to reduce these events to zero, (...)"

Amir Gan - Water Infrastructure Manager, Shiller Group Kibbutz, Israel

"After installing the valve and ConDor all needs were met. Dorot gave us more advantages with what the ConDor can do. At night we were able to reduce the pressure by a little bit more and we managed to save extra money from the NRW (...)"

**Christos Iordanou - Senior Technician & NRW Manager, Water Board
Nicosia, Cyprus**

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