powered by innovation





MULTICHANNEL POWER CONTROLLER

REVO MULTICHANNEL POWER CONTROLLER

Presentation of the REVO multichannel family

Through every stage; from planning, operation, to service and maintenance, REVO saves up to 70% in time and money compared to a multiple, single component heating solution. REVO will improve your heating process, the quality of the product and guarantee shorter downtimes.

Choose the optimal solution for your application

regulation is managed within the REVO system or the PLC. and maximum output power for each channel.

All in One unit:

Total integration of all components and functionality for the control of electric heating elements in a modular system.

Less overhead More than 70% less wiring in the control cabinet.

Entry into service

Up to 20% faster, on site.

Reduced footprint

Up to 80% space saving in the control cabinet.

Intelligent diagnostics

Detect and locate errors in the load circuit with the support of the TIA system.

Simple integration of the heating process

Utilize existing libraries, templates and project examples for simple process integration of your heating system to Siemens or Rockwell PLC's. The TIA Portal guarantees the complete integration of all components with a shared database.

Integrated load management

Software algorithm's optimise performance by distributing the load over the network.



- Choose between different heating control systems and select if the temperature
- Every system has different characteristics in terms of number of managed channels

REVO POWER NETWORK

- Multi-zoned solution with firing synchronization based on the algorithm "Dynamic Burst Firing".
- REVO PN: up to 24 power zones of 25A, 480Vmax for each module.
- **REVO PB:** up to 3 power zones from 35A to 90A for each module.
- **REVO PC:** 24 outputs unit that can be used for the SSR input and TA for current detection.

REVO TH

Up to 3 single phase zones of 35A to 90A power for each module with Phase Angle, Soft Start and Current Limit switching plus communication or fieldbus modules.

REVO RTL Advanced

Multi-zone temperature control unit, combined with Power Network and REVO TH series modules, or with REVEX 1-2-3PH, or REVEX PA single-zone modules.

POWER QUALITY OBJECTIVE

The optimisation algorithm, like a conductor, distributes the required power to the individual zones keeping the line current as constant as possible





Power Quality



Reduction of disturbances on the power supply line. Reduction in heating of electrical cables. Reduction in power loss.

These disturbances are generally caused by flickering, harmonics due to the insertion of unsynchronised loads with a negative impact on power quality.



Thanks to the new **REVO POWER NETWORK control system** and **Dynamic Burst Firing technology** for optimised load control, the Power Factor value is maintained close to 1, minimising energy cost penalties and disturbances to the grid. The power fed into the grid without synchronization looks a lot like a raging river. REVO PB distributes the power demand of individual zones while keeping the current draw as constant as possible and eliminating problematic unwanted peaks.



IS HA

- CS REACTIVE
 - REACTIVE POWER
- NETWORK UNBALANCE OSCILLATIONS

ARIATIONS FLICKER

VOLTAGE VARIATIONS

POWER QUALITY OBJECTIVE

REVO PN Power Network

A compact and flexible solution with synchronized switching. Robust SCR junctions allow control of the most complex loads such as IR lamps with high current peaks.

- For the control of 480V heating elements.
- Can be used as a distributed solution with installation in small panels integrated within the plant.
- Ideal for controlling IR lamps for heating processes in PET bottle production, extruders and co-extrusion systems, ovens with IR lamps and multi-zone ovens.
- Exceptionally space-saving and cost-effective heating solution with various output modules from 4 to 24 zones at 25A per fieldbus node, optional I/O modules and temperature control cards.
- Engineering Tools for TIA Portal and Rockwell PLC examples.
- Profinet, Profibus, Ethernet IP and Modbus TCP integrated in the unit depending on the code selected.

REVO PC Power Controller

Total flexiblility with synchronized switching and single loop integrity. REVO PC uses the same control technology as the REVO PN series, but keeps the synchronisation and communication unit separate from the thyristor power management of the individual channels, which is handled by the REVO S 1PH or multiple REVO Sx series units.

- To control heating elements with maximum voltages of 480V, 600V or 690V.
- Current ratings from 3A to 800A, three-phase and single-phase connections complete with extra fast fuses.
- Ideal for the control of IR lamps, Resistors for Extrusion and Injection Lines for plastics and elastomers. Furnaces with IR lamps and multi-zone furnaces for glass, steel and ceramics.
- REVO PC control modules for 8 to 24 channel control of each fieldbus node, a dedicated current sensor input for each SSR for maximum accuracy, optional I/O modules and temperature control boards.
- Engineering Tools for TIA Portal and examples for Rockwell PLCs.
- Profinet, Profibus, Ethernet IP and Modbus TCP integrated in the unit depending on the code selected.

POWER QUALITY OBJECTIVE

REVO PB Power Network

A compact and powerful solution for controlling resistors and lamps up to 90A per channel at 480V or 600V. The basic REVO PB Power Network enables the economical management of loads in a synchronized manner with rapid switch-on at zero crossing. Suitable for systems ranging from three to twelve zones with currents of 35A, 50A, 75A and 90A per channel single-phase.

- Integrated fuses for each channel and optional temperature control with RTL modules.
- External termination modules for management of 9-zone branches in Profibus, Profinet, Modbus TCP and Ethernet IP.
- Standard integrated diagnostics for load monitoring and junction faults.
- Integrated display and keypad as standard.

Power optimization

Without	REVO	PB	

In multi-zone applications, the addition of multiple non-synchronized loads can generate a peak current that produces disturbances on the power line.

REVO PB distributes the power demand of the individual zones keeping the line current as constant as possible.

Network disturbance

The addition of unsynchronized loads on the power line can cause disturbances, such as fluctuations in the mains voltage (Flickering) and network holes/losses on power cables.

Harmonic component

Without REVO PB

The management and addition of unsynchronized loads can lead to an increase in the harmonic component generated (THD). This effect increases losses, generates noise and can generate overheating of the power cables.

Optimization of energy cost

Without REVO PB

Thanks to its control strategy and the distribution of the power required in the management of multizone loads, REVO PB keeps the Power Factor value close to 1.

With REVO PB

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			Acquisition		L1	Total
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			Damais		LI	Total
			AC 0500	kvar	0.03	0.03
					LI	Total
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With REVO PB

With REVO PB

With REVO PB

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	~~~~~~	High Ros 500kSajs	Effective	1.74 kW	4.3 W	0.00 . \$/hr
		Danvis	Reactive	0.03 kvar	0.0 W	0.00 . \$/hr
		KC 2500 XX 102	Unbalance	0.00 kVA	0.0 W	0.00 . \$/hr
	······	Masurements	Distortion	0.00 kVA	0.0 W	0.00 . \$/hr
		ACING-FS() 125V	Neutral	5.0 A	1.7 W	0.00 . \$/hr
WWWWWWWWWW		125mA	Total			5.25 . \$/hr

# **APPLICATIONS REQUIRING PHASE ANGLE FIRING**

## **Special loads**

### MoSi₂ Heating elements (KANTHAL SUPER®)

This type of heater increases its resistivity significantly with temperature but does not change with age. The initial current with cold elements can be 16 times the rated current. For this type of application use phase angle firing with soft start (3 sec.) and current limit.

### **REVO TH Multi Channel Power Controller**

![](_page_5_Picture_5.jpeg)

### Silicon Carbide elements (Inductive loads)

This type of heater increases its resistivity significantly with temperature but does not change with age.

The initial current with cold elements can be 16 times the rated current.

![](_page_5_Picture_9.jpeg)

### **Complex loads with phase angle and current limit**

REVO TH is a compact and powerful solution to control special resistors, transformers and lamps up to 90A per channel at 480V or 600V.

- REVO TH is a three channel unit with phase angle firing, soft start and current limit used for inductive and special loads to half and single cycle for controlling low inertia loads such as IR lamps, MoSi2 resistors and special loads such as SiC. Integrated fuses for each channel and optional temperature control with RTL modules.
- External termination modules for management of 9-zone branches in Profibus, Profinet, Modbus TCP and Ethernet IP.

PANFI

![](_page_5_Picture_15.jpeg)

![](_page_5_Figure_16.jpeg)

### **Phase Angle**

With Phase Angle it is possible to control the power at the load by allowing the thyristor to be in conduction for a variable part of the half-wave of the supply voltage. The power at the load can be set from 0 to 100% as a function of the analogue input signal, normally from a regulator or potentiometer. It is a function usually used with inductive type loads.

![](_page_5_Figure_19.jpeg)

# **GENERAL FEATURES**

		r F	
REVO	ARVO ARVO	- REVO - REVO	REVO

![](_page_6_Picture_2.jpeg)

![](_page_6_Picture_3.jpeg)

![](_page_6_Picture_4.jpeg)

![](_page_6_Picture_5.jpeg)

![](_page_6_Picture_6.jpeg)

REVO PN 412 - 424	REVO PC 412 - 424	REVO PN 612 - 624	REVO PC 612 - 624	REVO PC 204 - 208	REVO PC 304 - 308
25A	From 3 to 800A REVO S 1PH	25A	From 3 to 800A REVO S 1PH	From 3 to 800A REVO S 1PH	From 3 to 800A REVO S 1PH
480V	480V, 600V or 690V	480V	480V, 600V or 690V	480V, 600V or 690V	480V, 600V or 690V
12 or 24	12 or 24	12 or 24	12 or 24	8 or 16 to control 4 or 8 x two legs 3 phase loads	12 or 24 to control 4 or 8 x 3 legs 3 phase loads
Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Standard	Standard	Standard	Standard	Standard	Standard
Standard	Standard	Standard	Standard	Standard	Standard
Standard	Standard	Standard	Standard	Standard	Standard
Optional	Optional	Optional	Optional	Optional	Optional
Optional	Optional	Optional	Optional	Optional	Optional
Optional	Optional	Optional	Optional	Optional	Optional
Optional	Optional	Optional	Optional	Optional	Optional
Standard	Standard ("Y" option on REVO S)	Standard	Standard ("Y" option on REVO S)	Standard ("Y" option on REVO S*)	Standard ("Y" option on REVO S)
Optional	Optional	Optional	Optional	Optional	Optional
Optional	Optional	Optional	Optional	Optional	Optional
Optional	Optional	Optional	Optional	Optional	Optional
Standard	Standard	Standard	Standard	Standard	Standard
With HB option	With HB option	With HB option	With HB option	With HB option	With HB option
24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc
Resistive Loads	Resistive Loads	Resistive Loads	Resistive Loads	Resistive Loads	Resistive Loads
4 wires	4 wires	6 wires	6 wires	3 wires, 2 legs control	3 wires, 3 legs control
NO	NO	YES	YES	NO	NO
YES	YES	NO	NO	NO	NO
NO	NO	NO	NO	YES	YES
NO	NO	NO	NO	YES	YES
YES	YES	NO	NO	NO	YES
NO	NO	YES	YES	NO	NO
YES	YES	NO	NO	NO	NO
V, V2, I, I2, VxI	V, V2, I, I2, VxI	V, V2, I, I2, VXI	V, V2, I, I2, VxI	V, V2, I, I2, VxI	V, V2, I, I2, VXI
Standard	Standard	Standard	Standard	Standard	Standard
Standard	Standard	Standard	Standard	NO	NO
Standard	Standard	Standard	Standard	Standard	Standard
Standard	Standard	Standard	Standard	NO	NO
NO	NO	NO	NO	NO	NO
NO	NO	NO	NO	NO	NO

** Synchronization firing is available only if all the three zone have the same wiring connection.

Family	REVO PN 104 - 108 - 112 - 116 - 120 - 124	REVO PB	REVO TH
Max. output current per output	25A	35, 50, 75 or 90A	35, 50, 75 or 90
Max Load Voltage	480V	480V or 600V	480V or 600\
Number of output for each module	4, 8, 12, 16, 20 o 24	3	3
Fieldbus and communication	Integrated	with Terminal Unit	with Termina Unit
Modbus TCP	Standard	Optional	Optional
Modbus RTU	Standard	Standard	Standard
CD BUS for REVO RTL	Standard	Standard	Standard
Profinet	Optional	Optional	Optional
Profibus	Optional	Optional	Optional
Ethernet IP	Optional	Optional	Optional
Heater Break Alarm	Optional	Optional	Optional
Integrated Fuses and Current Sensor	Standard	Standard	Standard
Temperature Controller Features RT or RTL option	Optional	Optional	Optional
Main PID Heating Control Out	Optional	Optional	Optional
Secondary PID Relay Output for Cooling or Alarm	Optional	Optional	Optional
Digital Input	Standard	Standard	Standard
Relay Output for Alarm or Start	With HB option	With HB option	With HB optic
Aux. Power Supply	24Vdc	24Vdc	24Vdc
Load type	Resistive Loads	Resistive Loads	Resistive Loads Inductive Load
Connection	1 wire	1 wire	1, 4 or 6 wires
1PH Phase-Phase. All the output share the same connection	YES	YES	NO
1PH Phase-Neutral. All the output share the same connection	YES	YES	NO
2PH Delta or star without neutral	NO	NO	NO
3PH Delta or star without neutral	NO	NO	NO
3PH star with neutral	NO	NO	NO
1PH Loads distribuited on the three phases (Phase-Phase) in the same unit	NO	NO	YES
1PH Loads distribuited on the three phases (Phase-Neutral) in the same unit	NO	NO	YES
Control Mode	V, V2, I, I2, VxI	V, V2, I, I2, VxI	V, V2, I, I2, Vx
Simple Burst firing without Synchronization	Standard	Standard	Standard
Half Cycle or Single Cycle without Synchronization	Standard	Standard	Standard
Dynamic Burst firing with Synchronization	Standard	Standard	Standard
Dynamic Half Cycle or Single Cycle with Synchronization	Standard	Standard	Standard
Phase Angle firing with or without Soft Start	NO	NO	Standard
Phase Angle firing + Current Limit with or without Soft Start	NO	NO	Standard

* For non controlled phases, it's necessary to use an external current sensor (only for two legs control).

-	r		-	•
	L		4	,
	L	4	2	

![](_page_6_Picture_12.jpeg)

![](_page_6_Picture_13.jpeg)

![](_page_6_Picture_14.jpeg)

# Application guide for multichannel Thyristor control units

							Suggest	ed Firing mode		
Load type	Application guide	Modell	Voltage range	Number of channels per unit and modularity	Controlled phases per channel	Dynamic Burst Firing	Standard Burst Firing	Phase Angle + Soft Start + Current Limit	Delayed Triggering	
		REVO PB	35A-90A	3	1	+				
	1PH loads sharing same phase connection, Normal Resistance, Infrared Lamp Medium and Short Waveform	REVO PN 1 REVO PC 1 + REVO S	25A 3.5A-2100A	4, 8, 12, 16, 20 or 24 24	1	+ +				
<u> </u>		N°3 of REVO PB	35A - 90A	3	1	+				
	IPH loads shared on the three	REVO PN 4	25A	12 or 24	1	+				
	phases (Phase - Neutral), Normal Resistance, Infrared Lamp Medium and Short Waveform	REVO PC 4 + REVO S	3.5A-2100A	24	1	+				
<u>ц</u> , ц, ,		N°3 of REVO PB	35A - 90A	3	1	+				
	1PH loads sharing same phase	REVO PN 6	25A	12 or 24	1	+				
	Normal Resistance, Infrared Lamp Medium and Short Waveform	REVO PC 6 + REVO S	3.5A-2100A	24	1	+				For application
	Star without neutral or Close Delta connections, Normal Resistance, Infrared Lamp Medium and Short Waveform	REVO PC 2 + REVO S	3.5A-2100A	8	2	÷				recommended For infrared lar
		REVO PN 4	25A	8	3	+				
	Star plus neutral, Normal Resistance, Infrared Lamp Medium and Short Waveform	REVO PC 3 + REVO S	3.5A-2100A	8	3	+				
		REVO TH	35A - 90A	3	1		+	+		
		REVO PN 6	25A	12 or 24	3	+				
	Open Delta connections, Normal Resistance, Infrared Lamp Medium and Short Waveform	REVO PC 6 + REVO S	3.5A-2100A	8	3	+				
	1PH loads Molibdenum, Tungstenum, Kanthal Super, Platinum.	REVO TH	35A - 90A	3	1			+		These resistance Starting curren super). Infrarec
	1PH loads Silicon Carbide Elements	REVO TH	35A - 90A	3	1			÷		These resistance end of elemente Constant powe
	1PH Transformer coupled with normal resistances	REVO TH	35A - 90A	3	1			+	+	Transformers a Soft Start and c To switch the tr ON-OFF when
	1PH Transformer coupled with Silicon Carbide Elements	REVO TH	35A - 90A	3	1			+		These resistance end of element Constant powe
	1PH Transformer coupled with Kanthal Super	REVO TH	35A - 90A	3	1			+		Use Phase Ang
	Other Loads and other connections	REVO S, REVEX or REVO C	3.5A-2100A	1	1					See the genera

with multiple resistive loads, with low variations in nd age or Low inertia like Infrared IRSW, Dynamic Burst Firing is with power synchronization. np is also available Phase Angle (PA) firing

ces change with temperature but have low variations with age. t with cold elements can be 16 times nominal current (Kanthal® d lamp short waveform can reach 8 time nominal current

ces change value with temperature and age and value at the t life is 4 times the initial value. er regulation is necessary with V to VxI Transfer.

nd inductors have inrush current on start up. Phase Angle plus current limit are required. ransformer ON-OFF, use DT firing that will automatically switch current value is at zero.

ces change value with temperature and age and value at the t life is 4 times the initial value. r regulation is necessary with V to VxI Transfer.

le + Current Limit

I thyristor catalogue

# **TEMPERATURE CONTROLLER**

### **REVO RT Loop Advanced**

![](_page_8_Picture_2.jpeg)

The RT Loop ADVANCED multi-controller system was specifically developed for temperature control, through electric heaters and infrared lamps.

In its basic configuration, it comprises a three loop controller and a field bus communication module. By adding one or more integrated three loops cards, the system can be expanded up to 24 heating & cooling control loops.

Each control loop can be linked with one or more external power channels via dedicated communication.

RT Loop Advanced is equipped with multiple master communication ports, capable of controlling up to 24 power control channels, sending power sets and acquiring process data.

A subnet is then created, with the data available in the data table of the field bus module of the REVO RT Loop.

Each three-loop temperature controller card includes:

- 3 process inputs configurable as thermocouple or analog;
- 5 configurable Relay Outputs configurable as process alarms, cooling, diagnostic alarms, one of which for cumulative alarms (eg: enable to start motor).

Relay outputs freely associable to one or more zones

- 1 configurable digital input;
- 1 Micro USB port for PC connection;
- Modbus RTU port.

![](_page_8_Picture_15.jpeg)

Up to 24 thermocouple or analogue inputs and 40 relay outputs per field bus node can be configured. The individual control boards are positioned within one or more modules depending on the required order code.

If you order with the system configuration code, you get one or two modules with boards already inserted, addressed and wired.

- The fieldbus communication circuitry also takes care of other functions:
- Contains a micro USB port for PC programming of all zones.
- It can contain a copy of the zone configurations and manuals in PDF format.

In addition to Profinet, Ethernet IP, Modbus TCP, classic field buses such as Profibus DP or Modbus RTU communication are also supported.

![](_page_8_Figure_22.jpeg)

# CONFIGURATION ¢ ACCESSORIES

### **Configurator Software**

CDA Thyristor configurator software is free and can be downloaded from our site www.cdautomation.com. If the Order Code is in line with your requirement, and already configured in the Factory, then it's ready to use.

You need the software only to modify the ordered configuration, although we suggest to check the unit on the machine with the "Test unit" section. To install the software, load the program and follow the instructions on the screen.

Run the software configurator and set the serial port of the PC with baudrate.

![](_page_9_Figure_5.jpeg)

### **REVO KPC** Graphic operating terminals for REVO PC

- 7" or 10" colour display.
- Multi Language Interface.
- For 3 REVO PC.
- Makes the configuration of Thyristor units easier and more intuitive.
- 3 access levels available.
- REVO KPC can be connected to 24 zones.

![](_page_9_Picture_13.jpeg)

### **Configuration cable**

To connect the unit to the computer it's necessary use a standard micro USB cable (our code CCX).

The windows driver for USB connection is installed by thyristor configurator software installer.

![](_page_9_Picture_17.jpeg)

### **Libraries For Siemens TIA Portal**

Listening to the needs of our customers, CD Automation has developed libraries for Siemens PLC, to aid simplicity, speed of implementation and replicability of stored profiles.

There are many benefits from these libraries and include:

- Specialized function blocks for each protocol.
- Variables already named, the same for all blocks and with the same data formatting.
- Sample projects ready for use.

To obtain them, simply go to our website www.cdautomation.com and request on the dedicated web page.

### **REVO PN/PC program library for Rockwell** Systems:

Easy integration of heating processes. Using the REVO PN / PC program library and a detailed project example, the heating processes can be easily integrated into the automation system. The individual program blocks only need to be adapted to the respective application.

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## What our Customers want?

They want a positive experience with our total solution, not just a low price!

### CD Automation is sure to achieve this with ...

#### **Competent Sales Team**

- We have a team of commercial technicians focused only on our products.
- You will have a no-cost expert not one who will offer you a myriad of products with a rough knowledge of them.
- You will have easy access to our Design Engineers for advice or a special product that meets your application needs.

#### Fast service

- Excellent pre-sales and post-sales assistance.
- Remote assistance through "team viewer" or other applications on our thyristor units.

### Ease of doing business with us

- Fast reaction to your quotation requests, fast deliveries and accounting documentation in a very short time
- Catalogs and manuals of all our products available on the site with the addition of free configuration software.

![](_page_9_Picture_43.jpeg)

![](_page_10_Picture_0.jpeg)

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