

WWW.CDAUTOMATION.COM

CD Automation

Controllers, Drives & Automation



The advantages of doing business with us



ADVANTAGES

Why CD Automation is Reliable?

We have 30 years Experience in Thyristor Power Control

CD Automation have Product Lines equipped with Robotized vehicles able to transport the Subassemblies to Production Island on Operator demand

Collaborative Robots provide to repetitive operation on Production Island

CD Automation is focused on THYRISTOR POWER Control Only and can interface you with our Expert for suggestion about your new Project .

When you have to buy a product with high level Technology do you prefer to go in a specialized shop or in a generic big Supermarket where there are hundred of product including what you need?

We think that the answer is *I prefer to go in a specialized shop where I have an expert support*

You and CD Automation Expert can find the right solution for your Project because we have **3 Family of Thyristor Units:**

REVO S 1-2-3 Phase

- This Family have SSR and Analog Input and Heater Break Alarm
- The Firing of Thyristor is in Zero Crossing / Burst Firing (see [REVO S Catalog](#))
- Current Range from 30 to 800A at 480-600-690V Supply Voltage
- 100 KA Short Circuit Current (SCCR) from 35 to 700A up to 600V
- Comply with EMC, cUL from 35 to 700A

REVEX 1-2-3 Phase

- This Family have SSR and Analog Input and Heater Break Alarm (see [REVEX Catalog](#))
- The Firing can be in Burst , Phase Angle and Delayed Triggering and Control Mode in V-I or V-I
- Current Range from 30 to 280A at 480-600V Supply Voltage
- Standard Communication ModBus RTU
- Remote Service available

REVO C 1-2-3 Phase

- This Family constitute the Excellence Between CD Automation Families
- Current Range from 30 to 2100A at 480-600-690V
- All Firing and Control Mode available
- Wi Fi and all popular Field Bus available
- Comply with EMC, cUL from 35 to 700A and EMC from 800 to 2100A
- 100 KA Short Circuit Current (SCCR) from 35 to 700A up to 600V
- Remote Service available (see [REVO-C Catalog](#))



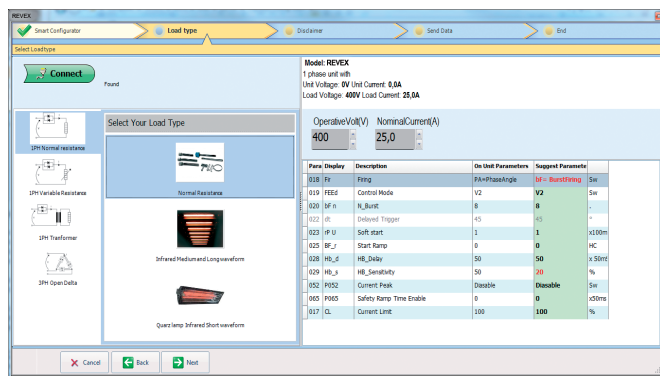
Current Rating in small steps allows you to select the desired current close to your application

Lead Time

CD Automation have a Lead Time of 2 weeks up to 800A-1-2-3Phase

Thyristor Configurator software

CD Automation has developed a configurator Software easy to use



FAST TUNE

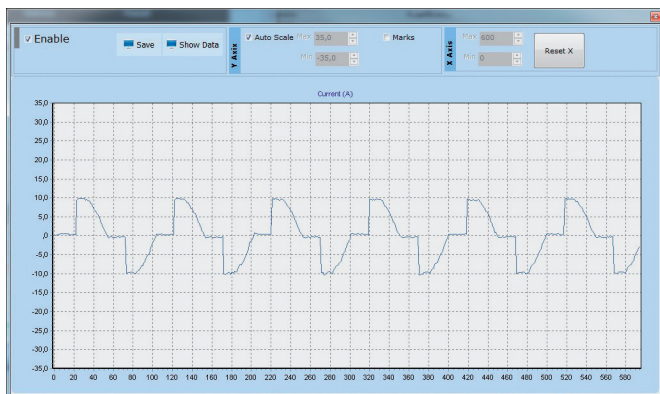
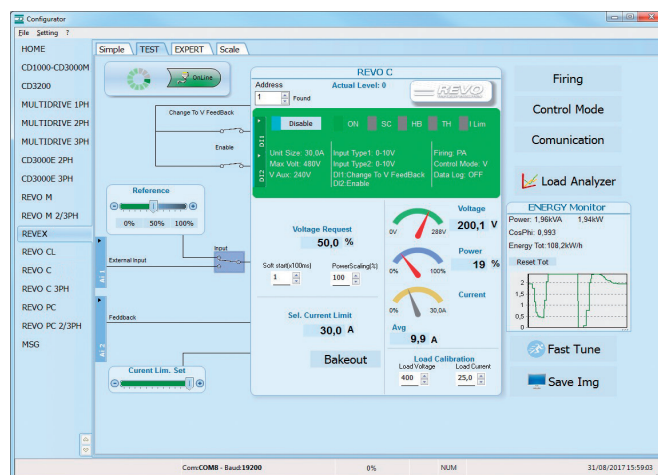
The all new powerful Thyristor Configurator Software allows you to configure all CD Automation products quickly and easily by using the FAST MODE. Simply select your application and the load type picture appears automatically, providing a list of suggested parameter settings. Depending on your application requirements, you can accept or make manual adjustments and when ready, download direct to the thyristor unit.

TEST UNIT

The TEST page is very useful when installing & commissioning CD Automation products as well as finding process issues or fine tuning at a later stage.

You can read, write, enable and disable key values and parameters to test your load. Examples include; reading voltage, current and power values, or current limit status, changing input types between analog or SSR, control (feedback) modes V, I and VxI, or select firing types half cycle, single cycle, burst firing, delayed triggering, phase angle and soft start.

The new 'Load Analyzer' (a small oscilloscope) can be activated from this page, see below.



LOAD ANALYZER

Provides real-time information of the output waveform, where you can select up to 10 process variables to help the operator determine if the waveform is in line with process expectations. Also useful for trouble shooting.



TEST MACHINE

Quality Test System

Our Products REVEX and REVO-C are fully tested on all inputs and outputs.

This means that calibration Procedure is done for all input and output.

CD Automation uses an automatic test machine (see the pictures on right) that fully tests the unit in one minute and generate a report.

This test machine has many advantages:

- Testing speed
- Accuracy
- Human error free

This automatic Test Machine is able to generate all Load Voltage with a pure sinusoidal waveform at frequency requested

If REVO-C is equipped with Field Bus the Automatic Test Machine will also test it.

On the report is possible to see different parameters including Unit serial number, Phase unit, AUX Voltage, Max Unit Voltage, Max Unit Current etc

Anyway, based on the serial number, all the data of the Thyristor units are stored in our database and the test can be requested whenever you want

This feature is important for the traceability of the Thyristor unit

It's possible to supply the report of the Thyristor unit ordered at € 20
Below you can see a sample of the report.



REVO C 50936-155256-001 TEST REPORT Test Date: 11/02/2019 09:45:52 Vendor: CDA Phase Unit: PH 1 Code: RC1035-2AP000000 AUX Voltage: 220Vac Max Unit Voltage: 480Vac Max Unit Current: 35A Operator: 1		
FIRMWARE VERSION: 1.51.0 Rev: 19.06 UNIT TYPE: 1PH CAL AUX VOLTAGE: - aux voltage 220 Vac of nominal voltage 220Vac - relative error -1.22727% PASS CAL CURRENT SENSOR: - cts correction 0.71, nominal 112.5A - act 112.6A - relative error -0.8000016% PASS CAL ANALOG INPUT 1: - 0 10Vdc low -> ok - 0 10Vdc high -> ok - 0 20mA high -> ok - 0 20mA low -> ok PASS CAL ANALOG INPUT 2: - 0 10Vdc low -> ok - 0 10Vdc high -> ok - 0 20mA high -> ok - 0 20mA low -> ok PASS DIGITAL INPUT TEST: - Digital input 2 -> ok - Digital input 1 -> ok PASS RETRANSMISSION CAL AND TEST: - Rtx VDC test 0% 0.93V - Rtx VDC test 50% 5.702V - Rtx VDC test 100% calibrated with correction 11346 - Rtx VDC test 100% 10.009V - Rtx mA test 0% 1.703mA - Rtx mA test 50% 10.108mA - Rtx mA test 100% calibrated with correction 9995 - Rtx mA test 100% 19.999mA PASS RELAY OUTPUT TEST: - Relay NO test -> ok - Relay NC test -> ok PASS VOUT GENERATOR TEST: - Vout test 10.228Vac -> ok PASS		
REVO C 50936-155256-001 TEST REPORT Test Date: 11/02/2019 09:45:52 Vendor: CDA Phase Unit: PH 1 Code: RC1035-2AP000000 AUX Voltage: 220Vac Max Unit Voltage: 480Vac Max Unit Current: 35A Operator: 1		
SET UNIT FOR STANDARD CONFIGURATION - P EN: NONE - FIRE MODE: BF - CTRL MODE: NONE - BF CYCLE: 8 - DT: 45 - SOFT START RMP: 1 ms - ZC BFS: 1 Hz - HB DELAY: 50 ms - HB SENS: 20% - D11: FBRT - D12: ENABLE - D13: NONE - AN1: 0.10V - PK CURRENT: DISABLE - STARTUP PAR: 1 - AN REF: AN1 - SAFETY RAMP: 0 ms - RTX VALUE: DISABLE - RTX TYPE: 0.10V - T LOG: 5 s - AND 0.10V - AND MODE: Lim - FIELD: DISABLE - WIFI: DISABLE - SCR SP: 0°C - LOG: DISABLE - BAKOUT: DISABLE - COM WD: DISABLE - COM WDT: 10 s SET UNIT FOR CUSTOM CONFIGURATION - FIRE MODE: Phase Angle - MODEL: IL5G - UNIT VOLTAGE: 480 - UNIT SIZE: 35 - LOAD CURRENT: 35 - LOAD VOLTAGE: 220 - IN1 AN: 40mA - Control Mode: V2 - SCR SP: DISABLE - RETRANSMISSION: DISABLE - TOTALIZER: DISABLE - HB ALARM: ENABLE - CURRENT LIMIT: ENABLE		
REVO C 50936-155256-001 TEST REPORT Test Date: 11/02/2019 09:45:52 Vendor: CDA Phase Unit: PH 1 Code: RC1035-2AP000000 AUX Voltage: 220Vac Max Unit Voltage: 480Vac Max Unit Current: 35A Operator: 1		
- Wifi: Disable - Datalog: Disable Calibrations: - 42 (BEVO_MAX_AUXILIARY_VOLTAGE): 220 - 67 (CT_CORRECTION): 77 - 106 (CALIBRATION_4_20MIN): 502 - 107 (CALIBRATION_4_20MAX): 2528 - 108 (CALIBRATION_0_20MIN): 1 - 109 (CALIBRATION_0_20MAX): 2528 - 110 (CALIBRATION2_0_10MIN): 1 - 111 (CALIBRATION2_0_10MAX): 3981 - 112 (CALIBRATION2_0_20MIN): 504 - 113 (CALIBRATION2_0_20MAX): 2530 - 114 (CALIBRATION2_0_10MIN): 1 - 115 (CALIBRATION2_0_20MAX): 2530 - 129 (CALIBRATION_0_10MIN): 1 - 130 (CALIBRATION_0_10MAX): 3987 SERIAL NUMBER - READED: 50936155256001 - ORIGINAL: 50936155256001 UNIT CONFIGURED		
CHECK PARAMETERS - Max line voltage: 480 - Amperage: 35 - Aux voltage: 240 - Current limit: Enable - Retransmission: Disable - Wired comms: none - Field Type: none - Hiccup Var: 0		



REMOTE SERVICE

Smartphone App

YOU WILL NEVER BE ALONE with CD AUTOMATION CONNECT APP (Download it free of charge)

This Service is available for REVO-C

- The customer can go with his Smartphone in front of the Unit and he can send to CD Automation the configuration
- Our Engineer will analyze it and send back the recipe with suggestions ready to be downloaded in the Thyristor Unit

This is the easier way to change a recipe.



PC remote support

This second procedure allows to our Engineer to be connected with the Thyristor unit in the Field:

- The customer plug the connector on Front Unit via USB port
- The customer downloads a Software for remote support (we usually use "Team Viewer")
- From this moment our Engineer from its PC can have access to all parameters of the Unit

In addition can be used the Thyristor Unit Configurator software and our support Engineer from his Computer can configure the REVEX or REVO-C in the Field

If you need more details let us know and we will send the instructions



The Remote service has the following advantages:

- Taking charge of the problem very fast
- No production stop
- Save money for hours of travel
- Save money for hours in the Field
- Save money for Airplane Ticket
- Save money for car transport
- Save Money for Restaurant and Hotels



CREDIT CARD

CD Automation accepts payments from all over the world by Credit Card

CD Automation with the PayPal System offer to the customers an easy way to pay.
The most common credit cards are accepted.



How the Payment works

- 1 CD Automation make an offer to Customer
- 2 The Customer sends the Order by e-mail
- 3 CD Automation creates a Proforma Invoice and send it to the Customer for the Payment
- 4 The Customer receive the Proforma Invoice by e-mail and clicking on the PayPal Payment Button he can pay it
- 5 With this click the customer is automatically directed on PayPal website where he can check its invoice and print it
- 6 When the payment is done the Customer receives a "Payment Receipt"
- 7 Product is ready for shipment

Crea una fattura pro-forma

Seleziona un modello per iniziare: **Modello PayPal predefinito**

Dati aziendali		Dati fattura pro-forma	
Mario Rossi Via Dante Alighieri, 11 00195 Milano Italia mariorossi@email.com		N° fattura pro-forma 0001	Data 28/07/2016
		Condizioni di pagamento Scadenza a ric...	Scadenza 28/07/2016

Invia a: ☒ cliente singolo Indirizzo email del destinatario: carlabianchi@email.com

Nome/codice articolo	Quantità	Prezzo unitario	Imposte	Importo
Prodotto test	1	215	Imposte (8,6%)	€215 EUR
Importo parziale				€215 EUR
Sconto				€0 EUR
Spedizione e imballaggio				€0 EUR
Imposte (8,6%)				€18,49 EUR
Totale				€233,49 EUR

Invia **Anteprima** **Salva fattura pro-forma**



OTHER SERVICES

Revision System in the Field

If the Customer ordered a Thyristor Unit like REVO-C and REVEX and he wants to add some options this is possible:

- The Customer starts from the Serial Number of the unit he wants revised, asking for the additional options with the option code that he needs
- A password will be sent and invoiced by CD Automation

This procedure has many advantages:

The Customer does not remove the Thyristor unit from the field

The operation takes few minutes

The Customer save money for Shipment in the two directions: from Customer to CD Automation and from CD Automation to the Customer

Express Service for new Unit

CD Automation can warranty a shipment in 48 Hours of new unit with a Premium of 20%: this is valid from 30A to 800A



Desk Service available 10 Hours per day

Our desk Service is active from 8:30 to 13:00 and From 14:00 to 19:00 of Italian Time

System Engineers

If you need suggestions about your System our Engineers are available to discuss with you the Features of your System





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