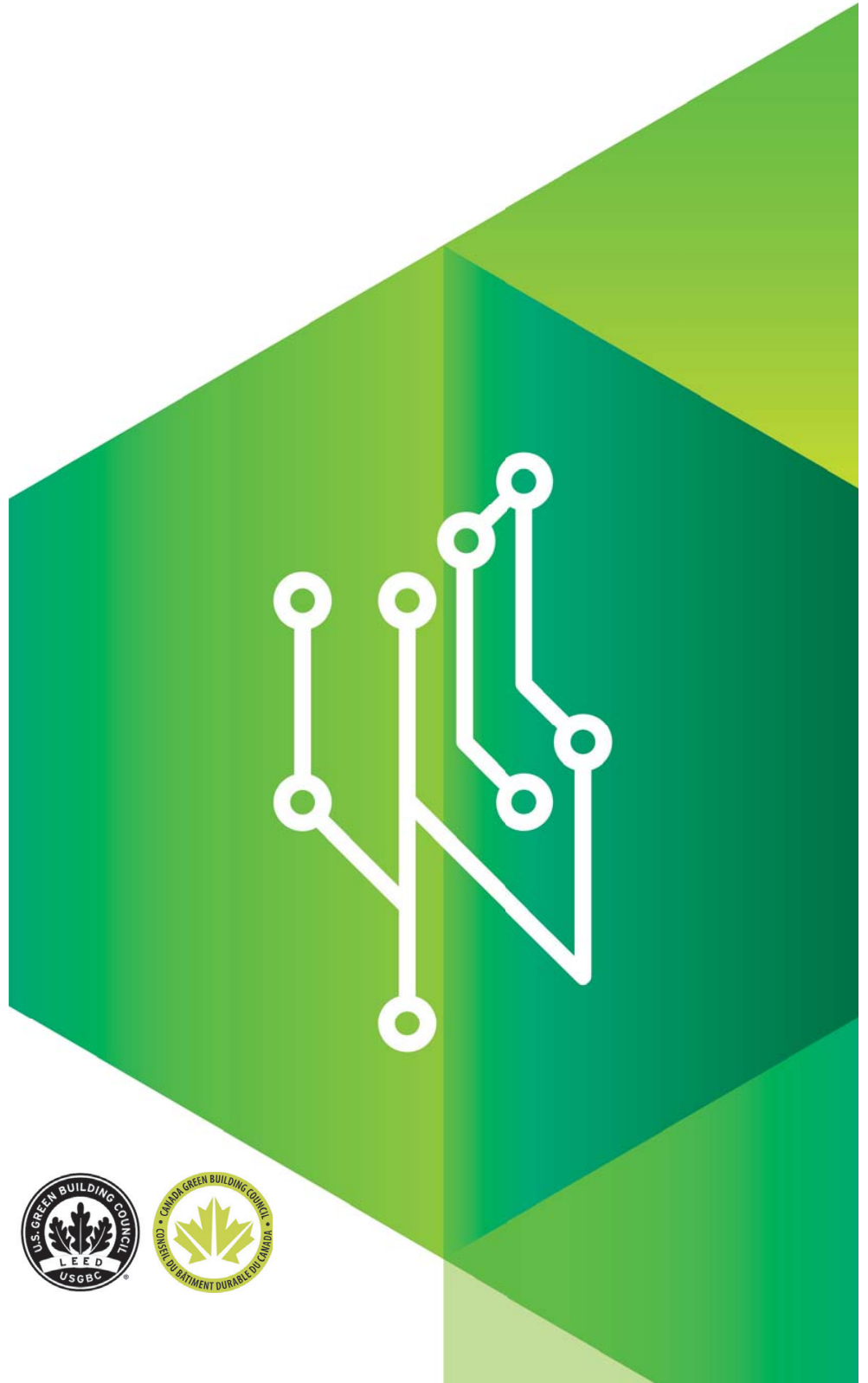


# CRISTAL

Power  
Control  
Solutions

Price List  
Liste de prix  
February/Février 2018



Smart  
Energy  
Solutions

Solutions  
énergétiques  
éclairées

[cristalcontrols.com](http://cristalcontrols.com)



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## Comment choisir un SCR

### How to size an SCR

#### At / À 1 Phase

<b>Application 120-1</b>	Watts / Voltage = Amp	(1000 Watts / 120 = 8.33 Amp)
<b>Application 208-1</b>	Watts / Voltage = Amp	(1000 Watts / 208 = 4.81 Amp)
<b>Application 240-1</b>	Watts / Voltage = Amp	(1000 Watts / 240 = 4.17 Amp)
<b>Application 277-1</b>	Watts / Voltage = Amp	(1000 Watts / 277 = 3.61 Amp)
<b>Application 347-1</b>	Watts / Voltage = Amp	(1000 Watts / 347 = 2.88 Amp)
<b>Application 480-1</b>	Watts / Voltage = Amp	(1000 Watts / 480 = 2.08 Amp)
<b>Application 600-1</b>	Watts / Voltage = Amp	(1000 Watts / 600 = 1.67 Amp)

#### At / À 3 Phases

<b>Application 208-3</b>	Watts / (Voltage x 1,73) = Amp	(1000 Watts / 360 = 2.77 Amp)
<b>Application 416-3</b>	Watts / (Voltage x 1,73) = Amp	(1000 Watts / 720 = 1.39 Amp)
<b>Application 480-3</b>	Watts / (Voltage x 1,73) = Amp	(1000 Watts / 830 = 1.20 Amp)
<b>Application 600-3</b>	Watts / (Voltage x 1,73) = Amp	(1000 Watts / 1038 = 0.93 Amp)

Reference / Référence:  
<http://www.the12volt.com/ohm/ohmslawcalculators.asp>

# SCR 1,2 & 3 Legs

## Price List Zero crossing

Effective : 2018

Model	Volt (max.)	Amp	Control Signal	Price 1 & 2 legs	Price 3Y 3 legs	Enclosure Type*
CCS-15-1	600-1-60	15	Multiple	445 \$	N/A	A
CCS-15-3	600-3-60	15	Multiple	555 \$	800 \$	A
CCS-30-1	600-1-60	30	Multiple	515 \$	N/A	A
CCS-30-3	600-3-60	30	Multiple	620 \$	925 \$	A
CCS-40-1	600-1-60	40	Multiple	530 \$	N/A	A
CCS-40-3	600-3-60	40	Multiple	860 \$	1290 \$	B
CCS-50-1	600-1-60	50	Multiple	845 \$	N/A	A
CCS-50-3	600-3-60	50	Multiple	1250 \$	1880 \$	B / C
CCS-75-1	600-1-60	75	Multiple	1255 \$	N/A	A
CCS-75-3	600-3-60	75	Multiple	1520 \$	2 085 \$	B / C
CCS-90-1	600-1-60	90	Multiple	1535 \$	N/A	B
CCS-90-3	600-3-60	90	Multiple	2 085 \$	3 125 \$	C
CCS-135-1	600-1-60	135	Multiple	2 205 \$	N/A	B
CCS-135-3	600-3-60	135	Multiple	2 900 \$	3 960 \$	C
CCS-165-1	600-1-60	165	Multiple	2 840 \$	N/A	B
CCS-165-3	600-3-60	165	Multiple	3 545 \$	5 095 \$	C
CCS-200-1	600-1-60	200	Multiple	3 470 \$	N/A	C
CCS-200-3	600-3-60	200	Multiple	4 985 \$	7 260 \$	C
CCS-250-1	600-1-60	250	Multiple	3 895 \$	N/A	C
CCS-250-3	600-3-60	250	Multiple	5 620 \$	8 225 \$	C
CCS-300-1	600-1-60	300	Multiple	4 400 \$	N/A	C
CCS-300-3	600-3-60	300	Multiple	6 260 \$	9 185 \$	C
CCS-350-1	600-1-60	350	Multiple	4 915 \$	N/A	C/F
CCS-350-3	600-3-60	350	Multiple	6 775 \$	9 960 \$	C/F
CCS-400-1	600-1-60	400	Multiple	5 425 \$	N/A	C/F
CCS-400-3	600-3-60	400	Multiple	7 350 \$	10 805 \$	C/F
CCS-500-1	600-1-60	500	Multiple	6 005 \$	N/A	C/F
CCS-500-3	600-3-60	500	Multiple	8 085 \$	11 905 \$	C/F
CCS-600-3	600-3-60	600	Multiple	C/F	C/F	C/F
CCS-750-3	600-3-60	750	Multiple	C/F	C/F	C/F
CCS-1000-3	600-3-60	1000	Multiple	C/F	C/F	C/F

**Note:**

- Pneumatic interface (analog): MIE-PN add \$430.00 to list price. - Enclosure "D" without xfo and terminal block. - Enclosures A, B & C are complete with xfo and terminal block.

**Terms:**

- See ordering information sheet for sales terms.

**\*Remote box addition List prices:**

A = 12" x 12" x 8"      670 \$  
 B = 16" x 12" x 12"    685 \$  
 C = 20" x 18" x 12"    695 \$  
 C/F = Call Factory

# TRIAC 1,2 & 3 Legs

## Price List Zero crossing

Effective : 2018

Model	Volt (max.)	Amp	Control Signal	Price 1 & 2 legs	Price 3Y 3 legs	Enclosure Type*
CCT-15-1	347-1-60	15	3-32VDC/24VAC	125 \$	N/A	A
CCT-15-3	600-3-60	15	3-32VDC/24VAC	475 \$	710 \$	A
CCT-25-1	347-1-60	25	3-32VDC/24VAC	145 \$	N/A	A
CCT-30-1	600-1-60	30	3-32VDC/24VAC	210 \$	N/A	A
CCT-30-3	600-3-60	30	3-32VDC/24VAC	520 \$	775 \$	A
CCT-40-1	600-1-60	40	3-32VDC/24VAC	510 \$	N/A	A
CCT-40-3	600-3-60	40	3-32VDC/24VAC	850 \$	1185 \$	B
CCT-50-1	600-1-60	50	3-32VDC/24VAC	885 \$	N/A	A
CCT-50-3	600-3-60	50	3-32VDC/24VAC	1140 \$	1875 \$	B / C
CCT-75-1	600-1-60	75	3-32VDC/24VAC	1255 \$	N/A	A
CCT-75-3	600-3-60	75	3-32VDC/24VAC	1395 \$	2 085 \$	B / C
CCT-90-1	600-1-60	90	3-32VDC/24VAC	1535 \$	N/A	B
CCT-90-3	600-3-60	90	3-32VDC/24VAC	2 085 \$	3 125 \$	C
CCT-135-1	600-1-60	135	3-32VDC/24VAC	1775 \$	N/A	B
CCT-135-3	600-3-60	135	3-32VDC/24VAC	2 345 \$	3 525 \$	C
CCT-165-1	600-1-60	165	3-32VDC/24VAC	2 420 \$	N/A	B
CCT-165-3	600-3-60	165	3-32VDC/24VAC	3 115 \$	4 545 \$	C
CCT-200-1	600-1-60	200	3-32VDC/24VAC	3 045 \$	N/A	C
CCT-200-3	600-3-60	200	3-32VDC/24VAC	4 565 \$	6 835 \$	C
CCT-250-1	600-1-60	250	3-32VDC/24VAC	3 465 \$	N/A	C
CCT-250-3	600-3-60	250	3-32VDC/24VAC	5 197 \$	7 798 \$	C
CCT-300-1	600-1-60	300	3-32VDC/24VAC	3 978 \$	N/A	C
CCT-300-3	600-3-60	300	3-32VDC/24VAC	5 840 \$	8 750 \$	C
CCT-350-1	600-1-60	350	3-32VDC/24VAC	4 490 \$	N/A	C/F
CCT-350-3	600-3-60	350	3-32VDC/24VAC	6 340 \$	9 527 \$	C/F
CCT-400-1	600-1-60	400	3-32VDC/24VAC	5 050 \$	N/A	C/F
CCT-400-3	600-3-60	400	3-32VDC/24VAC	6 835 \$	10 060 \$	C/F
CCT-500-1	600-1-60	500	3-32VDC/24VAC	5 405 \$	N/A	C/F
CCT-500-3	600-3-60	500	3-32VDC/24VAC	7 517 \$	11 067 \$	C/F
CCT-600-3	600-3-60	600	3-32VDC/24VAC	C/F	N/A	C/F
CCT-750-3	600-3-60	750	3-32VDC/24VAC	C/F	N/A	C/F
CCT-1000-3	600-3-60	1000	3-32VDC/24VAC	C/F	N/A	C/F

**Note:**

- Pneumatic interface (digital): MIE-PNT add \$430.00 to list price. - Enclosure "D" without xfo and terminal block - Enclosures A, B & C are complete with terminal block

**Terms:**

- See ordering information sheet for sales terms.

**\*Remote box addition List prices:**

A = 12" x 12" x 8"      670 \$  
 B = 16" x 12" x 12"    685 \$  
 C = 20" x 18" x 12"    695 \$  
 C/F = Call Factory

# TRIAC (input 120VAC) 1,2 &3 Legs

## Price List Zero crossing

Effective : 2018

Model	Volt (max.)	Amp	Control Signal	Price 1 & 2 legs	Price 3Y 3 legs	Enclosure Type*
CCT-15-3-120	600-3-60	15	120VAC	595 \$	885 \$	A
CCT-30-1-120	600-1-60	30	120VAC	260 \$	N/A	A
CCT-30-3-120	600-3-60	30	120VAC	645 \$	955 \$	A
CCT-40-1-120	600-1-60	40	120VAC	630 \$	N/A	A
CCT-40-3-120	600-3-60	40	120VAC	1035 \$	2 025 \$	B
CCT-50-1-120	600-1-60	50	120VAC	1080 \$	N/A	A
CCT-50-3-120	600-3-60	50	120VAC	1390 \$	2 090 \$	B / C
CCT-75-1-120	600-1-60	75	120VAC	1395 \$	N/A	A
CCT-75-3-120	600-3-60	75	120VAC	1540 \$	2 310 \$	B / C
CCT-90-1-120	600-1-60	90	120VAC	1665 \$	N/A	B
CCT-90-3-120	600-3-60	90	120VAC	2 225 \$	2 820 \$	C
CCT-135-1-120	600-1-60	135	120VAC	1900 \$	N/A	B
CCT-135-3-120	600-3-60	135	120VAC	2 530 \$	3 795 \$	C
CCT-165-1-120	600-1-60	165	120VAC	2 595 \$	N/A	C
CCT-165-3-120	600-3-60	165	120VAC	3 320 \$	4 980 \$	C
CCT-200-1-120	600-1-60	200	120VAC	3 250 \$	N/A	C
CCT-200-3-120	600-3-60	200	120VAC	4 815 \$	7 220 \$	C
CCT-250-1-120	600-1-60	250	120VAC	3 680 \$	N/A	C
CCT-250-3-120	600-3-60	250	120VAC	5 480 \$	8 210 \$	C
CCT-300-1-120	600-1-60	300	120VAC	4 215 \$	N/A	C
CCT-300-3-120	600-3-60	300	120VAC	6 145 \$	9 185 \$	C
CCT-350-1-120	600-1-60	350	120VAC	4 745 \$	N/A	C/F
CCT-350-3-120	600-3-60	350	120VAC	6 670 \$	10 001 \$	C/F
CCT-400-1-120	600-1-60	400	120VAC	5 380 \$	N/A	C/F
CCT-400-3-120	600-3-60	400	120VAC	7 285 \$	10 710 \$	C/F
CCT-500-1-120	600-1-60	500	120VAC	5 760 \$	N/A	C/F
CCT-500-3-120	600-3-60	500	120VAC	8 010 \$	11 795 \$	C/F

**Note:**

- Enclosure "D" without xfo and terminal block. - Enclosures A, B & C are complete with xfo and terminal block.

**Terms:**

- See ordering information sheet for sales terms.

**\*Remote box addition List prices:**

A = 12" x 12" x 8"      670 \$  
 B = 16" x 12" x 12"    685 \$  
 C = 20" x 18" x 12"    695 \$  
 C/F = Call Factory

## TRIAC Special Models (Single Phase only)

### Price List Zero crossing

Effective : 2018

Model	Volt (max.)	Amp	Control Signal	Price	Cover
CCT-06-1-S	600-1-60	6	3-32VDC/24VAC	195 \$	
CCT-15-1-C1	347-1-60	15	3-32VDC/24VAC	155 \$	A
CCT-15-1-S	347-1-60	15	3-32VDC/24VAC	140 \$	See Note *
CCT-15-1-S-T-347V	347-1-60	15	3-32VDC/24VAC	165 \$	See Note *
CCT-15-1-S-T-240V	240-1-60	15	3-32VDC/24VAC	245 \$	See Note *
CCT-25-1-C1	347-1-60	25	3-32VDC/24VAC	170 \$	A
CCT-25-1-C2-T-347V	347-1-60	25	3-32VDC/24VAC	195 \$	B
CCT-25-1-C2-T-240V	240-1-60	25	3-32VDC/24VAC	275 \$	B
CCT-30-1-C2	600-1-60	30	3-32VDC/24VAC	245 \$	B
CCT-45-1-C2	600-1-60	45	3-32VDC/24VAC	355 \$	B

**Note:**

- External terminal block for input's connection
- Cover A 4" x 4"
- Cover B 4 11/16" x 4 11/16"
- To replace cover A by type B, Add 65.00\$ list
- \* Model designed for installation inside a baseboard heater

**Terms:**

- See ordering information sheet for sales terms.

# SCR Phase Angle

## Price List Phase Angle

Effective : 2018

Model	Volt (max.)	Amp	Control Signal	Price	Cover
CCPA-15-1	600-1-60	15	0-10Vdc or 4-20mA	1 065 \$	A
CCPA-15-3	600-3-60	15	0-10Vdc or 4-20mA	1 335 \$	A
CCPA-30-1	600-1-60	30	0-10Vdc or 4-20mA	1 175 \$	A
CCPA-30-3	600-3-60	30	0-10Vdc or 4-20mA	1 490 \$	A
CCPA-40-1	600-1-60	40	0-10Vdc or 4-20mA	1 360 \$	A
CCPA-40-3	600-3-60	40	0-10Vdc or 4-20mA	2 395 \$	B
CCPA-50-1	600-1-60	50	0-10Vdc or 4-20mA	1 400 \$	A
CCPA-50-3	600-3-60	50	0-10Vdc or 4-20mA	2 455 \$	C
CCPA-75-1	600-1-60	75	0-10Vdc or 4-20mA	1 825 \$	A
CCPA-75-3	600-3-60	75	0-10Vdc or 4-20mA	2 680 \$	C
CCPA-100-1	600-1-60	100	0-10Vdc or 4-20mA	2 110 \$	B
CCPA-100-3	600-3-60	100	0-10Vdc or 4-20mA	3 740 \$	C
CCPA-135-1	600-1-60	135	0-10Vdc or 4-20mA	2 355 \$	B
CCPA-135-3	600-3-60	135	0-10Vdc or 4-20mA	4 135 \$	C
CCPA-165-1	600-1-60	165	0-10Vdc or 4-20mA	3 125 \$	B
CCPA-165-3	600-3-60	165	0-10Vdc or 4-20mA	5 300 \$	C
CCPA-200-1	600-1-60	200	0-10Vdc or 4-20mA	3 640 \$	C
CCPA-200-3	600-3-60	200	0-10Vdc or 4-20mA	6 985 \$	C
CCPA-250-1	600-1-60	250	0-10Vdc or 4-20mA	4 070 \$	C
CCPA-250-3	600-3-60	250	0-10Vdc or 4-20mA	7 945 \$	C
CCPA-300-1	600-1-60	300	0-10Vdc or 4-20mA	4 595 \$	C
CCPA-300-3	600-3-60	300	0-10Vdc or 4-20mA	8 920 \$	C
CCPA-350-1	600-1-60	350	0-10Vdc or 4-20mA	5 115 \$	C/F
CCPA-350-3	600-3-60	350	0-10Vdc or 4-20mA	9 700 \$	C/F
CCPA-400-1	600-1-60	400	0-10Vdc or 4-20mA	5 725 \$	C/F
CCPA-400-3	600-3-60	400	0-10Vdc or 4-20mA	10 865 \$	C/F
CCPA-500-1	600-1-60	500	0-10Vdc or 4-20mA	6 540 \$	C/F
CCPA-500-3	600-3-60	500	0-10Vdc or 4-20mA	11 745 \$	C/F
CCPA-600-3	600-3-60	600	0-10Vdc or 4-20mA	C/F	C/F
CCPA-750-3	600-3-60	750	0-10Vdc or 4-20mA	C/F	C/F
CCPA-1000-3	600-3-60	1000	0-10Vdc or 4-20mA	C/F	C/F

**Note:**

- Semi conductor fuse(s) not included, contact factory if needed. - For 400 amps and more, please contact factory. - Enclosures A, B & C are complete with xfo and terminal block.

**Terms:**

- See ordering information sheet for sales terms.

**\*Remote box addition List prices:**

A = 12" x 12" x 8"      670 \$  
 B = 16" x 12" x 12"    685 \$  
 C = 20" x 18" x 12"    695 \$  
 C/F = Call Factory



# Ordering information for SCR, TRIAC and Step Controller

**CC - X - XX - X - X - XX - XXX**  

1
2
3
4
5
6

## MODELS 1

S = SCR (Zero Crossing)  
 T = Triac/SSR (Zero Crossing)  
 PA = Phase Angle  
 E4 / E8 = Step Controller

## CAPACITY 2

10\* = 10 Amps  
 15\* = 15 Amps  
 25\* = 25 Amps  
 30\*\* = 30 Amps  
 40\*\* = 40 Amps  
 50\*\* = 50 Amps  
 75\*\* = 75 Amps  
 90\*\* = 90 Amps  
 135\*\* = 135 Amps  
 165\*\* = 165 Amps  
 200\*\* = 200 Amps  
 250\*\* = 250 Amps  
 300\*\* = 300 Amps  
 400\*\* = 400 Amps  
 500\*\* = 500 Amps  
 600\*\* = 600 Amps  
 750\*\* = 750 Amps  
 1000\*\* = 1000 Amps

\* Triac Available only from  
 48@347 Vac 1 phase SCR  
 Available only from 15A 48 @  
 347 Vac and 48 @ 600Vac  
 \*\* Available from 48@600Vac

Other capacity: Call factory

1 = 1 Phase 3

3 = 3 Phases (2 Legs)  
 3Y = 3 Phases (3 Legs)

## WITH ENCLOSURE\*\*\* 4

A = 12" x 12" x 8"  
 B = 16" x 12" x 12"  
 C = 20" x 18" x 12"  
 D = 7" x 10" x 6"

## WITH COVER

C1 = 4" x 4"  
 C2 = 4 11/16" x 4 11/16"

Blank = without complete box.

## INPUT SIGNAL 5

### Proportionnal

S1 = 4-20mA  
 S2 = 0-SVDC  
 S3 = 0-10VDC  
 S4 = 0-135 Ohms  
 S5 = Multiple  
 S6 = Thermistor NTC 10 K  
**Digital (Pulsing)**  
 S7 = 3-32VDC or 24 Vac  
 S8 = 120VAC

### PNEUMATIC

P = 0-15 Psi

Full On: \_\_\_\_\_

Full Off: \_\_\_\_\_

\*\*\*Enclosure A, B 6

and C with fuse, terminal block and transformer.

## VOLTAGE TRANSFORMER

600 = 600/24 Vac  
 480 = 480/24 Vac  
 347 = 347/24 Vac  
 277 = 277/24 Vac  
 240 = 240/24 Vac  
 208 = 208/24 Vac  
 120 = 120/24 Vac

## Terms:

- Taxes extra

- F.O.B. Quebec

- Delivery 5 days minimum

- Prices can change without notice

# Step Controller

## Price List

Effective : 2018

Model	Description	Price
CCE-4	4 On/Off Steps + 1 Modulating step	970 \$
CCE-32-08	8 On/Off Steps + 1 Modulating step * Din rail enclosure	1 065 \$
CCE-32-16	16 On/Off Steps + 1 Modulating step * Mounted on a 18,5" x 13" Back Plate	2 015 \$
CCE-32-24	24 On/Off Steps + 1 Modulating step * Mounted on a 18,5" x 13" Back Plate	2 960 \$
CCE-32-32	32 On/Off Steps + 1 Modulating step * Mounted on a 18,5" x 13" Back Plate	3 905 \$

**Note:**

- Use CCT price list for the modulating step.
- The controller can be from 4 to 32 steps with or without the modulating step.
- \* Led Status, override switch.
- \* Outputs: 1A @ 24Vac max. (dry contacts)

**Terms:**

- See ordering information sheet for sales terms.

**Options**

- LIFO, FIFO, Binary and more. See technical sheet for detailed data.
- 120-1-60 power supply, add 285\$ list.
- Enclosures on request, call factory for prices

## Control Card

### Parts Price List

Effective : 2018

Model	Description	Price
MIE-PN	SCR Pneumatic Interface	915 \$
MIE-PNT	SSR Pneumatic Interface	915 \$
MIED-1	50 and up SCR control card 1 phase	610 \$
MIED-3 (2 legs)	50 and up SCR control card 3 phases	735 \$
MIED-3-Y (3 legs)	50 and up SCR control card 3 phases 3 legs	1115 \$
MIED-1-24	135 and up SCR control card 1 phase	765 \$
MIED-3-24 (2 legs)	135 and up SCR control card 3 phases	945 \$
MIED-3Y-24 (3 legs)	135 and up SCR control card 3 phases 3 legs	1130 \$
MIET-1	50 and up SSR control card 1 phase	670 \$
MIET-3 (2 legs)	50 and up SSR control card 3 phases	735 \$
MIET-3Y (3 legs)	50 and up SSR control card 3 phases 3 legs	1205 \$
MIE-PA-1	Phase Angle control card 1 phase	1480 \$
MIE-PA-3	Phase Angle control card 3 phases	1875 \$
MIE-C4	Carte contrôle pour fan	970 \$
AC/DC 24	Alimentation 24Vdc pour Fan	275 \$
FAN 4715KL	Fan 24Vdc	220 \$

**Terms:**  
- See ordering information sheet for sales terms.

## Power Module

### Parts Price List

Effective : 2018

Model	Description	Price
50 amps	Thyristor	425 \$
75 amps	Thyristor	500 \$
90 amps	Thyristor	535 \$
135 amps	Thyristor	565 \$
165 amps	Thyristor	620 \$
200 amps	Thyristor	1480 \$
250 amps	Thyristor	1685 \$
350 amps and +	Thyristor	

**Terms:**  
- See ordering information sheet for sales terms.

# LS-100

## Price List

Effective : 2018

Model	Description	Price
LS-100-08	8 outputs / sorties	4 620 \$
LS-100-16	16 outputs / sorties	5 395 \$
Model	Description	Price
OS-100	Outdoor temp sensor / Sonde de temp externe	115 \$
LS-100-SW	Software / Logiciel	520 \$
LS-100-USB	USB to serial cable / Cable USB à série 6'	365 \$
LS-100-INET	Internet Com Interface / Interface de comme Internet	1 480 \$

**Note:**

- All prices are FOB Quebec.
- Refer to promotional brochure for technical details.

- Vous référer à la brochure promotionnelle pour les détails techniques.
- Les prix sont FAB Québec.

**Terms:**

- See ordering information sheet for sales terms.

# CCTMR

## Price List CCTMR

Effective : 2018

### Minuterie de foyer au gaz / Fire place timer

250 \$



Idéale pour les endroits où se trouve un foyer au gaz tel :

- ▶ Condo
- ▶ Hotel
- ▶ Résidence
- ▶ Chalet

For every room with a gas fire place

- ▶ Condos
- ▶ Hotel
- ▶ Residence
- ▶ Secondary residence

Remplacez votre interrupteur mural MARCHE/ARRÊT ou votre minuterie mécanique bruyante par cette nouvelle minuterie électronique à la fine pointe de la technologie !

Replace existing On-Off wall switches and noisy mechanical timers with this new state-of-the electronic art timer.

#### Avantages de la minuterie électronique de Cristal Contrôles

- ▶ Alimentation par pile sur le mur ;
- ▶ S'utilise avec le système de régulation du débit gazeux avec piles thermoélectriques ;
- ▶ Élimine l'interrupteur, qu'on oublie souvent de fermer ;
- ▶ Économie d'énergie ;
- ▶ Indicateur de pile faible ;
- ▶ Facile à installer ;
- ▶ Seulement deux fils à connecter ;
- ▶ Utilisé comme interrupteur chronométrique ;
- ▶ Aucun bruit ;
- ▶ Dimensions : 35/8 x 45/8 x 11/8 (pouces) ;
- ▶ Utilise 3 piles AA de 1,5 volt (incluses) ;
- ▶ Démarrage simple du foyer à l'aide d'un bouton.

**S'installe sur une boîte électrique standard ou directement sur le mur**

#### Cristal Controls Electronic Timer benefits

- ▶ Wall battery-powered timer
- ▶ To be used with thermopile gas control fire place
- ▶ No more forgotten on switch
- ▶ Save energy
- ▶ Battery Level Monitoring
- ▶ Easy to install
- ▶ Only two(2) wires to connect
- ▶ Use as a timed switch
- ▶ No noise
- ▶ Dimensions: 35/8 x 45/8 x 11/8 (inches)
- ▶ Use 3 x 1.5 volt AA batteries (included)
- ▶ Simply push the button to activate your fireplace

**Fits a standard one gang electrical box or directly on the wall**

# CRISTAL

**See our products at**  
[cristalcontrols.com](http://cristalcontrols.com)

**Cristal Controls**

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# CRISTAL

## Garantie limitée de 2 ans

CRISTAL CONTRÔLES garantit que ses produits seront exempts de tout défaut de matériau ou de main-d'oeuvre pour une période de deux ans après l'expédition desdits produits par CRISTAL CONTRÔLES.

Si un produit CRISTAL CONTRÔLES souffrait d'un défaut de matériau ou de main-d'oeuvre durant la période applicable de garantie, la responsabilité de CRISTAL CONTRÔLES se limitera à la réparation du produit ou à son remplacement ou au remboursement du prix d'achat, à la discrétion de CRISTAL CONTRÔLES. CRISTAL CONTRÔLES n'endossera pas la responsabilité des dépenses encourues, directes ou indirectes, pour l'installation, le retrait ou la réinstallation d'un produit défectueux.

La garantie limitée de CRISTAL CONTRÔLES ne sera pas applicable s'il n'y a pas conformité avec les instructions d'installation et d'opération fournies par CRISTAL CONTRÔLES, ou si le produit a été modifié sans le consentement écrit de CRISTAL CONTRÔLES, ou si la défaillance dudit produit est le résultat d'un accident, d'une mauvaise utilisation, d'une mauvaise maintenance, d'une modification, de négligence ou d'une maintenance inappropriée. Toute requête concernant la garantie devra être soumise par écrit à CRISTAL CONTRÔLES durant la période de garantie.

Ce qui précède remplace toute autre garantie explicite ou implicite. CRISTAL CONTRÔLES n'endosse aucune autre obligation ou responsabilité liée au produit et n'autorise personne à le faire en son nom.

CRISTAL CONTRÔLES ne peut en aucun cas être tenue responsable de dommages, directs ou indirects, accidentels ou consécutifs (y compris la perte de profits, de revenus ou d'occasion d'affaires), ni de blessures ou de dommages à la propriété reliés à la fabrication ou à l'utilisation de ses produits.

En achetant les produits CRISTAL CONTRÔLES, l'acheteur est en accord avec les conditions de la présente garantie.



## 2 Years Limited Warranty

Cristal Controls is committed to achieving the highest standards of quality for every lighting control and energy management product and system it makes. As such, it warrants to the original user that its products will be free from defects in materials and workmanship for a period of two years following the date Cristal Controls ships the product.

If any Cristal Controls product is found to be defective in material or workmanship during the applicable warranty period, Cristal Controls' liability shall be to repair or replace or refund the purchase price, at Cristal Controls' discretion. Cristal Controls' shall not be held liable for any costs or expenses, whether direct or indirect, associated with the installation, removal or re-installation of any defective product.

Cristal Controls' limited warranty shall not be effective unless there has been compliance with all installation and operating instructions furnished by Cristal Controls, or if the products have been modified or altered without the written consent of Cristal Controls, or if such products have been subject to accident, misuse, mishandling, tampering, negligence, or improper maintenance. Any warranty claim must be submitted to Cristal Controls in writing within the stated warranty period.

Cristal Controls' limited warranty is made in lieu of, and Cristal Controls disclaims all other warranties, whether expressed or implied, including, but not limited to, any implied warranty of the products.

Cristal Controls shall under no circumstances be liable for any direct, indirect, accidental, special, or consequential damage (including but not limited to, loss of profits, revenues, or business opportunities) or damage or injury to persons or property in any way related to the manufacture or the use of its products. The exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory, even if Cristal Controls was notified of the possibility of such damages.

By purchasing Cristal Controls products, the purchaser agrees to the terms and conditions of this limited warranty.



## Solutions énergétiques éclairées

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