

# CRISTAL

## Power Control Solutions

Price List  
Liste de prix  
July / Juillet 2017

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

**Application 120-1**    Watts / Voltage = Amp    (1000 Watts / 120 = 8.33 Amp)

**Application 208-1**    Watts / Voltage = Amp    (1000 Watts / 208 = 4.81 Amp)

**Application 240-1**    Watts / Voltage = Amp    (1000 Watts / 240 = 4.17 Amp)

**Application 277-1**    Watts / Voltage = Amp    (1000 Watts / 277 = 3.61 Amp)

**Application 347-1**    Watts / Voltage = Amp    (1000 Watts / 347 = 2.88 Amp)

**Application 480-1**    Watts / Voltage = Amp    (1000 Watts / 480 = 2.08 Amp)

**Application 600-1**    Watts / Voltage = Amp    (1000 Watts / 600 = 1.67 Amp)

### At / À 3 Phases

**Application 208-3**    Watts / (Voltage x 1,73) = Amp    (1000 Watts / 360 = 2.77 Amp)

**Application 416-3**    Watts / (Voltage x 1,73) = Amp    (1000 Watts / 720 = 1.39 Amp)

**Application 480-3**    Watts / (Voltage x 1,73) = Amp    (1000 Watts / 830 = 1.20 Amp)

**Application 600-3**    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 : 2017

Model	Volt (max.)	Amp	Control Signal	Price 1 & 2 legs	Price 3Y 3 legs	Enclosure Type*
CCS-15-1	600-1-60	15	Multiple	435 \$	N/A	A
CCS-15-3	600-3-60	15	Multiple	545 \$	785 \$	A
CCS-30-1	600-1-60	30	Multiple	505 \$	N/A	A
CCS-30-3	600-3-60	30	Multiple	605 \$	905 \$	A
CCS-40-1	600-1-60	40	Multiple	520 \$	N/A	A
CCS-40-3	600-3-60	40	Multiple	845 \$	1 265 \$	B
CCS-50-1	600-1-60	50	Multiple	830 \$	N/A	A
CCS-50-3	600-3-60	50	Multiple	1 225 \$	1 840 \$	B / C
CCS-75-1	600-1-60	75	Multiple	1 230 \$	N/A	A
CCS-75-3	600-3-60	75	Multiple	1 490 \$	2 045 \$	B / C
CCS-90-1	600-1-60	90	Multiple	1 505 \$	N/A	B
CCS-90-3	600-3-60	90	Multiple	2 045 \$	3 065 \$	C
CCS-135-1	600-1-60	135	Multiple	2 160 \$	N/A	B
CCS-135-3	600-3-60	135	Multiple	2 840 \$	3 880 \$	C
CCS-165-1	600-1-60	165	Multiple	2 785 \$	N/A	B
CCS-165-3	600-3-60	165	Multiple	3 475 \$	4 995 \$	C
CCS-200-1	600-1-60	200	Multiple	3 400 \$	N/A	C
CCS-200-3	600-3-60	200	Multiple	4 885 \$	7 120 \$	C
CCS-250-1	600-1-60	250	Multiple	3 820 \$	N/A	C
CCS-250-3	600-3-60	250	Multiple	5 510 \$	8 065 \$	C
CCS-300-1	600-1-60	300	Multiple	4 315 \$	N/A	C
CCS-300-3	600-3-60	300	Multiple	6 135 \$	9 005 \$	C
CCS-350-1	600-1-60	350	Multiple	4 815 \$	N/A	C/F
CCS-350-3	600-3-60	350	Multiple	6 640 \$	9 765 \$	C/F
CCS-400-1	600-1-60	400	Multiple	5 320 \$	N/A	C/F
CCS-400-3	600-3-60	400	Multiple	7 205 \$	10 595 \$	C/F
CCS-500-1	600-1-60	500	Multiple	5 885 \$	N/A	C/F
CCS-500-3	600-3-60	500	Multiple	C/F	C/F	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 terminal block

**Terms:**

See ordering information sheet for sales terms.

**Enclosure addition List prices:**

- A = 12" x 12" x 8" \$655.00
- B = 16" x 12" x 12" \$670.00
- C = 20" x 18" x 12" \$680.00
- C/F = Call Factory

# TRIAC 1,2 & 3 Legs

## Price List Zero crossing

Effective : 2017

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	120 \$	N/A	A
CCT-15-3	600-3-60	15	3-32VDC/24VAC	465 \$	695 \$	A
CCT-25-1	347-1-60	25	3-32VDC/24VAC	140 \$	N/A	A
CCT-30-1	600-1-60	30	3-32VDC/24VAC	205 \$	N/A	A
CCT-30-3	600-3-60	30	3-32VDC/24VAC	510 \$	760 \$	A
CCT-40-1	600-1-60	40	3-32VDC/24VAC	500 \$	N/A	A
CCT-40-3	600-3-60	40	3-32VDC/24VAC	830 \$	1 160 \$	B
CCT-50-1	600-1-60	50	3-32VDC/24VAC	865 \$	N/A	A
CCT-50-3	600-3-60	50	3-32VDC/24VAC	1 115 \$	1 835 \$	B / C
CCT-75-1	600-1-60	75	3-32VDC/24VAC	1 230 \$	N/A	A
CCT-75-3	600-3-60	75	3-32VDC/24VAC	1 365 \$	2 045 \$	B / C
CCT-90-1	600-1-60	90	3-32VDC/24VAC	1 505 \$	N/A	B
CCT-90-3	600-3-60	90	3-32VDC/24VAC	2 045 \$	3 065 \$	C
CCT-135-1	600-1-60	135	3-32VDC/24VAC	1 740 \$	N/A	B
CCT-135-3	600-3-60	135	3-32VDC/24VAC	2 300 \$	3 455 \$	C
CCT-165-1	600-1-60	165	3-32VDC/24VAC	2 370 \$	N/A	B
CCT-165-3	600-3-60	165	3-32VDC/24VAC	3 055 \$	4 455 \$	C
CCT-200-1	600-1-60	200	3-32VDC/24VAC	2 985 \$	N/A	C
CCT-200-3	600-3-60	200	3-32VDC/24VAC	4 475 \$	6 700 \$	C
CCT-250-1	600-1-60	250	3-32VDC/24VAC	3 395 \$	N/A	C
CCT-250-3	600-3-60	250	3-32VDC/24VAC	5 095 \$	7 645 \$	C
CCT-300-1	600-1-60	300	3-32VDC/24VAC	3 900 \$	N/A	C
CCT-300-3	600-3-60	300	3-32VDC/24VAC	5 725 \$	8 580 \$	C
CCT-350-1	600-1-60	350	3-32VDC/24VAC	4 400 \$	N/A	C/F
CCT-350-3	600-3-60	350	3-32VDC/24VAC	6 215 \$	9 340 \$	C/F
CCT-400-1	600-1-60	400	3-32VDC/24VAC	4 950 \$	N/A	C/F
CCT-400-3	600-3-60	400	3-32VDC/24VAC	6 700 \$	9 860 \$	C/F
CCT-500-1	600-1-60	500	3-32VDC/24VAC	5 300 \$	N/A	C/F
CCT-500-3	600-3-60	500	3-32VDC/24VAC	7 370 \$	10 850 \$	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:**

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**Enclosure addition List prices:**

- A = 12" x 12" x 8" \$655.00
- B = 16" x 12" x 12" \$670.00
- C = 20" x 18" x 12" \$680.00
- C/F = Call Factory

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

## Price List Zero crossing

Effective : 2017

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	580 \$	865 \$	A
CCT-30-1-120	600-1-60	30	120VAC	255 \$	N/A	A
CCT-30-3-120	600-3-60	30	120VAC	630 \$	935 \$	A
CCT-40-1-120	600-1-60	40	120VAC	615 \$	N/A	A
CCT-40-3-120	600-3-60	40	120VAC	1 015 \$	1 985 \$	B
CCT-50-1-120	600-1-60	50	120VAC	1 060 \$	N/A	A
CCT-50-3-120	600-3-60	50	120VAC	1 360 \$	2 050 \$	B / C
CCT-75-1-120	600-1-60	75	120VAC	1 370 \$	N/A	A
CCT-75-3-120	600-3-60	75	120VAC	1 510 \$	2 265 \$	B / C
CCT-90-1-120	600-1-60	90	120VAC	1 630 \$	N/A	B
CCT-90-3-120	600-3-60	90	120VAC	2 180 \$	2 760 \$	C
CCT-135-1-120	600-1-60	135	120VAC	1 865 \$	N/A	B
CCT-135-3-120	600-3-60	135	120VAC	2 480 \$	3 720 \$	C
CCT-165-1-120	600-1-60	165	120VAC	2 545 \$	N/A	C
CCT-165-3-120	600-3-60	165	120VAC	3 255 \$	4 880 \$	C
CCT-200-1-120	600-1-60	200	120VAC	3 185 \$	N/A	C
CCT-200-3-120	600-3-60	200	120VAC	4 720 \$	7 075 \$	C
CCT-250-1-120	600-1-60	250	120VAC	3 605 \$	N/A	C
CCT-250-3-120	600-3-60	250	120VAC	5 370 \$	8 050 \$	C
CCT-300-1-120	600-1-60	300	120VAC	4 130 \$	N/A	C
CCT-300-3-120	600-3-60	300	120VAC	6 025 \$	9 005 \$	C
CCT-350-1-120	600-1-60	350	120VAC	4 650 \$	N/A	C/F
CCT-350-3-120	600-3-60	350	120VAC	6 540 \$	9 805 \$	C/F
CCT-400-1-120	600-1-60	400	120VAC	5 275 \$	N/A	C/F
CCT-400-3-120	600-3-60	400	120VAC	7 140 \$	10 500 \$	C/F
CCT-500-1-120	600-1-60	500	120VAC	5 645 \$	N/A	C/F
CCT-500-3-120	600-3-60	500	120VAC	7 855 \$	11 562 \$	C/F

**Note:**

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

**Terms:**

See ordering information sheet for sales terms.

**Enclosure addition List prices:**

- A = 12" x 12" x 8" \$655.00
- B = 16" x 12" x 12" \$670.00
- C = 20" x 18" x 12" \$680.00
- C/F = Call Factory

## TRIAC Special Models (Single Phase only)

### Price List Zero crossing

Effective : 2017

Model	Volt (max.)	Amp	Control Signal	Price	Cover
CCT-06-1-S	600-1-60	6	3-32VDC/24VAC	190 \$	
CCT-15-1-C1	347-1-60	15	3-32VDC/24VAC	150 \$	A
CCT-15-1-S	347-1-60	15	3-32VDC/24VAC	135 \$	See Note *
CCT-15-1-S-T-347V	347-1-60	15	3-32VDC/24VAC	160 \$	See Note *
CCT-15-1-S-T-240V	240-1-60	15	3-32VDC/24VAC	240 \$	See Note *
CCT-25-1-C1	347-1-60	25	3-32VDC/24VAC	165 \$	A
CCT-25-1-C2-T-347V	347-1-60	25	3-32VDC/24VAC	190 \$	B
CCT-25-1-C2-T-240V	240-1-60	25	3-32VDC/24VAC	270 \$	B
CCT-30-1-C2	600-1-60	30	3-32VDC/24VAC	240 \$	B
CCT-45-1-C2	600-1-60	45	3-32VDC/24VAC	345 \$	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 : 2017

Model	Volt (max.)	Amp	Control Signal	Price	Cover
CCPA-15-1	600-1-60	15	0-10Vdc or 4-20mA	1 045 \$	A
CCPA-15-3	600-3-60	15	0-10Vdc or 4-20mA	1 310 \$	A
CCPA-30-1	600-1-60	30	0-10Vdc or 4-20mA	1 150 \$	A
CCPA-30-3	600-3-60	30	0-10Vdc or 4-20mA	1 460 \$	A
CCPA-40-1	600-1-60	40	0-10Vdc or 4-20mA	1 330 \$	A
CCPA-40-3	600-3-60	40	0-10Vdc or 4-20mA	2 345 \$	B
CCPA-50-1	600-1-60	50	0-10Vdc or 4-20mA	1 370 \$	A
CCPA-50-3	600-3-60	50	0-10Vdc or 4-20mA	2 405 \$	C
CCPA-75-1	600-1-60	75	0-10Vdc or 4-20mA	1 790 \$	A
CCPA-75-3	600-3-60	75	0-10Vdc or 4-20mA	2 625 \$	C
CCPA-100-1	600-1-60	100	0-10Vdc or 4-20mA	2 070 \$	B
CCPA-100-3	600-3-60	100	0-10Vdc or 4-20mA	3 665 \$	C
CCPA-135-1	600-1-60	135	0-10Vdc or 4-20mA	2 310 \$	B
CCPA-135-3	600-3-60	135	0-10Vdc or 4-20mA	4 055 \$	C
CCPA-165-1	600-1-60	165	0-10Vdc or 4-20mA	3 065 \$	B
CCPA-165-3	600-3-60	165	0-10Vdc or 4-20mA	5 195 \$	C
CCPA-200-1	600-1-60	200	0-10Vdc or 4-20mA	3 570 \$	C
CCPA-200-3	600-3-60	200	0-10Vdc or 4-20mA	6 850 \$	C
CCPA-250-1	600-1-60	250	0-10Vdc or 4-20mA	3 990 \$	C
CCPA-250-3	600-3-60	250	0-10Vdc or 4-20mA	7 790 \$	C
CCPA-300-1	600-1-60	300	0-10Vdc or 4-20mA	4 505 \$	C
CCPA-300-3	600-3-60	300	0-10Vdc or 4-20mA	8 745 \$	C
CCPA-350-1	600-1-60	350	0-10Vdc or 4-20mA	5 015 \$	C/F
CCPA-350-3	600-3-60	350	0-10Vdc or 4-20mA	9 510 \$	C/F
CCPA-400-1	600-1-60	400	0-10Vdc or 4-20mA	5 615 \$	C/F
CCPA-400-3	600-3-60	400	0-10Vdc or 4-20mA	10 650 \$	C/F
CCPA-500-1	600-1-60	500	0-10Vdc or 4-20mA	6 410 \$	C/F
CCPA-500-3	600-3-60	500	0-10Vdc or 4-20mA	11 515 \$	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  
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" \$655.00  
B = 16" x 12" x 12" \$670.00  
C = 20" x 18" x 12" \$680.00  
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

**Terms:**

- Taxes extra
- F.O.B. Quebec
- Delivery 5 days minimum
- Prices can change without notice

**MODELS** 1

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

**3**

1 = 1 Phase  
 3 = 3 Phases (2 Legs)  
 3Y = 3 Phases (3 Legs)

**INPUT SIGNAL** 5

**Proportional**  
 S1 = 4-20mA  
 S2 = 0-5VDC  
 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: \_\_\_\_\_

**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

**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.

**6**

\*\*\*Enclosure A, B 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

## Control Card

### Parts Price List

Effective : 2017

Model	Description	Price
MIE-PN	SCR Pneumatic Interface	895 \$
MIE-PNT	SSR Pneumatic Interface	895 \$
MIED-1	50 and up SCR control card 1 phase	595 \$
MIED-3 (2 legs)	50 and up SCR control card 3 phases	720 \$
MIED-3-Y (3 legs)	50 and up SCR control card 3 phases 3 legs	1 090 \$
MIED-1-24	135 and up SCR control card 1 phase	750 \$
MIED-3-24 (2 legs)	135 and up SCR control card 3 phases	925 \$
MIED-3Y-24 (3 legs)	135 and up SCR control card 3 phases 3 legs	1 110 \$
MIET-1	50 and up SSR control card 1 phase	655 \$
MIET-3 (2 legs)	50 and up SSR control card 3 phases	720 \$
MIET-3Y (3 legs)	50 and up SSR control card 3 phases 3 legs	1 180 \$
MIE-PA-1	Phase Angle control card 1 phase	1 450 \$
MIE-PA-3	Phase Angle control card 3 phases	1 835 \$
MIE-C4	Carte contrôle pour fan	950 \$
AC/DC 24	Alimentation 24Vdc pour Fan	270 \$
FAN 4715KL	Fan 24Vdc	215 \$

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

## Power Module

### Parts Price List

Effective : 2017

Model	Description	Price
50 amps	Thyristor	415 \$
75 amps	Thyristor	490 \$
90 amps	Thyristor	525 \$
135 amps	Thyristor	555 \$
165 amps	Thyristor	605 \$
200 amps	Thyristor	1 450 \$
250 amps	Thyristor	1 650 \$
350 amps and +	Thyristor	

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

## Control Card Price List

Effective : 2017

Model	Description	Price
MIE-PN	SCR Pneumatic Interface	870\$
MIE-PNT	SSR Pneumatic Interface	870\$
MIED-1	50 and up SCR control card 1phase	575\$
MIED-3 (2 legs)	50 and up SCR control card 3 phases	700\$
MIED-3-Y (3 legs)	50 and up SCR central card 3 phases 3 legs	1055\$
MIED-1-24	135 and up SCR control card 1phase	725\$
MIED-3-24 (2 legs)	135 and up SCR control card 3 phases	895\$
MIED-3Y-24 (3 legs)	135 and up SCR control card 3 phases 3 legs	1075\$
MIET-1	50 and up SSR control card 1phase	635\$
MIET-3 (2 legs)	50 and up SSR control card 3 phases	700\$
MIET-3Y (3 legs)	50 and up SSR central card 3 phases 3 legs	1145\$
MIE-PA-1	Phase Angle control card 1phase	1405\$
MIE-PA-3	Phase Angle control card 3 phases	1780\$
MIE-C4	Carte contrôle pour fan	920\$
AC/DC24	Alimentation 24Vdc pour Fan	260\$
FAN 4715KL	Fan 24Vdc	205\$

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

## Power Module Parts Price List

Effective : 2017

Model	Description	Price
50amps	Thyristor	400\$
75amps	Thyristor	475\$
90amps	Thyristor	510\$
135amps	Thyristor	540\$
165amps	Thyristor	585\$
200 amps	Thyristor	1405\$
250 amps	Thyristor	1600\$
350 amps and +	Thyristor	C/F

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

# LS-100

## Price List

Effective : 2017

Model	Description	Price
LS-100-08	8 outputs / sorties	4 530 \$
LS-100-16	16 outputs / sorties	5 290 \$
Model	Description	Price
OS-100	Outdoor temp sensor / Sonde de temp externe	110 \$
LS-100-SW	Software / Logiciel	510 \$
LS-100-USB	USB to serial cable / Cable USB à série 6'	355 \$
LS-100-INET	Internet Com Interface / Interface de comme Internet	1 450 \$

**Note:**

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

**Terms:**

See ordering information sheet for sales terms.

# CCTMR

## Price List CCTMR

Effective : 2017

### 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 MARCHÉ/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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## 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 manutention, 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.

