

# SOLO PROGRAMMABLE LIGHTING CONTROL



**EASY TO USE AND TO PROGRAM | HIGH QUALITY, USER-FRIENDLY DESIGN  
COST EFFECTIVE | EASY TO INSTALL**



Status-indicator lights

Easy-to-use  
function keys

Clear LCD display  
with backlight

Electronic Bypass  
switches



The Solo Programmable Lighting Control units are designed to let users automatically control and adjust the light duration and intensity over the birds' life cycle. Users can easily define light program sequences in order to control light intensity. Define up to 20 different periods during a single production cycle and for each period, up to 12 dusk-to-dawn sequences and 20 light peaks.

## FEATURES

- Gradual increase and decrease in light intensity to simulate sunrise and sunset
- Minimum and maximum intensities specified as a percentage of full lamp intensity
- Display of current time, day, light intensity and period
- Minimum-inertia method used to smooth sudden transitions in light intensity
- Lamp output activated above or below a threshold value
- Alarm contact (NO/NC) in case of power failure or fault in operation
- Real-time clock with backup battery to keep time in case of power failure
- Electronic bypass switches
- Can be connected to two lighting remote-control units (low power dimmers)



**CANARM LTD. - Corporate Office**  
PO Box 367 2157 Parkedale Ave., Brockville, ON  
Canada K6V 5V6  
Tel: (613) 342-5424 Fax: 1-800-263-4598

**CANARM LTD. - USA Warehouse**  
808 Commerce Park Drive  
Ogdensburg, New York, USA 13669  
Tel: 1-800-267-4427 Fax: 1-800-263-4598

**Arthur Manufacturing Facility**  
#7686 Concession 16, RR 4 Arthur, ON  
Canada N0G 1A0  
Tel: (519) 848-3910 Fax: (519) 848-3948

# SOLO

## PROGRAMMABLE LIGHTING CONTROL



### MODELS

FEATURES	MASTER UNITS			EXTENSION UNITS		
	LCL-0.2	LC-2.0	LC-0.2	LEL-0.2	LE-2.0	LE-0.2
Number of relay outputs (Stop/Start)	0	2	0	0	2	0
Number of variable outputs (TRIAC)	2	0	2	2	0	2
Alarm relay	1	1	1	⊘	⊘	⊘
Electronic bypass switches <sup>1</sup>	✓	✓	✓	✓	✓	✓
Water-usage monitoring <sup>2</sup>	✓	✓	✓	⊘	⊘	⊘
RS-485 network port	✓	✓	✓	⊘	⊘	⊘
Can be remotely controlled with 0-10 VDC	✓	✓	✓	✓	✓	✓
<b>Note</b>	<ul style="list-style-type: none"> <li>LC and LE models are for incandescent lighting</li> <li>LCL and LEL models are for LED lighting</li> </ul>					

- (1) Manual Mode option lets you control light intensity manually. In Auto Mode Option, light intensity is automatically adjusted by main controller.  
 (2) Up to 2 water meters can be monitored. Optional water meter required.

### TECHNICAL DATA

#### INPUTS/OUTPUTS

INPUTS			
<b>Analog Inputs</b>	4-20mA or 0-5VDC		
<b>Digital Inputs</b>	Pulse width > 10 ms		
OUTPUTS			
<b>Alarm Relay</b>	SPDT (1 Form C) 3A @ 24 VDC (resistive) 3A @ 240 VAC (resistive)		
<b>Relay Output</b>	SPST (1 Form A) 10A @ 24 VDC (resistive) 10A @ 240 VAC (resistive) 1 HP @ 120 VAC (inductive) 5 HP @ 240 VAC (inductive)		
<b>TRIAC Variable Output</b>	<table border="0"> <tr> <td>For LCL and LEL models 10 A (resistive) 2400 W @ 240 VAC 1200 W @ 120 VAC</td> <td>For LC and LE models 15 A (resistive) 3600 W @ 240 VAC 1800 W @ 120 VAC</td> </tr> </table>	For LCL and LEL models 10 A (resistive) 2400 W @ 240 VAC 1200 W @ 120 VAC	For LC and LE models 15 A (resistive) 3600 W @ 240 VAC 1800 W @ 120 VAC
For LCL and LEL models 10 A (resistive) 2400 W @ 240 VAC 1200 W @ 120 VAC	For LC and LE models 15 A (resistive) 3600 W @ 240 VAC 1800 W @ 120 VAC		
<b>Analog Output</b>	0-10VDC, sink Maximum load: 1mA		

#### DIMENSIONS

MODEL	DIMENSIONS
All Models	8.7"W x 10.6"H x 5.5"D

#### POWER SUPPLY

POWER SUPPLY	MAIN SUPPLY/FREQUENCY
Main line voltage & frequency	85-250V, 50/60 Hz
Main fuse	1A-250VAC, fast acting (5x20 mm)

#### NETWORK COMMUNICATION

PROTOCOL	INTERFACE
Modbus	RS-485

#### Main models to extension model connection

Connection between main models to extension models is done through the power bus.  
 The extension model input = 0-10VDC, source, Maximum load: 30mA



**CANARM LTD. - Corporate Office**  
 PO Box 367 2157 Parkedale Ave., Brockville, ON  
 Canada K6V 5V6  
 Tel: (613) 342-5424 Fax: 1-800-263-4598

**CANARM LTD. - USA Warehouse**  
 808 Commerce Park Drive  
 Ogdensburg, New York, USA 13669  
 Tel: 1-800-267-4427 Fax: 1-800-263-4598

**Arthur Manufacturing Facility**  
 #7686 Concession 16, RR 4 Arthur, ON  
 Canada N0G 1A0  
 Tel: (519) 848-3910 Fax: (519) 848-3948