



**Bigelow Brook Farm, LLC**  
**www.BigelowBrook.com**

# **IX Series Sequencing Timer**

## **Fully Automated with Multiple Configuration Options**

The IX-1xx series sequence timing controller allows you to set up your aquaponic or hydroponic system the way you need it to run! You are no longer limited to 15 minute increments with confusing dials, knobs, or DIP switches. The easy to read display allows you to configure the on/off times from 1 second to 999 minutes. This timer is superior to other timers with advanced and easy to configure features and industrial quality packaging.

Select from the multiple modes of operations available. This timer has 2 relays, allowing you to interlock them together so that one relay can be on for a set time, then cycle the second relay for a different time, enabling you to automate multiple operations. Another mode will allow the relays to run independently, essentially giving you two timers for the price of one! The IX-180 has two sensor inputs that can be connected to various devices such as temperature, humidity, or light sensors.

## **Industry Leading Durability**

The timer circuitry is enclosed in a NEMA 4x weather-tight, UV resistant enclosure with a sealed cable strain relief which is safe for outdoor use. The sealed packaging keeps water, dust, and bugs out of the electronics for trouble-free operation.

The fused relays can be configured for powered or dry contact operation. (Choose line power or provide your own voltage.) There are two power input options for the timing controllers: 90-240VAC or 8-24VDC, ideal for operating with off-grid systems.

Because there is a large choice of configuration options, the circuit board, enclosure, and cables are separate and can be assembled within a few minutes using the detailed instructions.

## **Key Features**

- Dual Relays/Timers
- Multiple Operating Modes
- NEMA 4x Weather-Tight Enclosure
- "Powered" or "Dry" Contact Relays
- AC or DC Power Supply Options
- Easy to Read Display<sup>1</sup>
- Upgradable Firmware
- Optional Sensor Inputs (IX-180)



IX-180-A120

# Configuration Options

IX- A - B C D E

## Option A (Timer board & Enclosure)

**100:** Basic Timer - No Display or Buttons  
(USB programming only)

**150:** Standard Timer - Programmable  
Through Display and Buttons

**180:** High End - 150 Model with Alarm  
and Input Sensor Connections

## Option B (Input voltage)

**A:** AC input (110-240VAC, 40-100Hz)

**D:** DC input (8-24VDC)

## Option C (Input power cable)

**0:** No power cable

**1:** 6' USA Male power cable (AC input  
only)

## Option D (Output power cable)

**0:** No cable

**1:** One 6" Female pigtail

**2:** Two 6" Female pigtails

## Option E (Mounting Hardware)

**0:** No Mounting Kit

**1:** Four Enclosure flanges

# Properties

## Mechanical

Size: Enclosure with Strain Relief:  
4.75" wide x 8" high x 2.25"  
deep (120.6 x 203 x 57 mm)

Enclosure: NEMA 4X Polycarbonate

## Electrical

Input Voltage: 90-250VAC 50-400Hz  
(Model IX-xxx-Axxx)

8-24VDC  
(Model IX-xxx-Dxxx)

Relay Voltage: 250VAC (max)  
100VDC (max)

Relay Current: 8 Amp Total

# Comparison Chart

	IX-100	IX-150	IX-180
Configure via USB <sup>2</sup>	✓		
Configure via Keypad		✓	✓
Monitor Real-Time		✓	✓
Input Sensors			✓
Alarm			✓

# Additional Info

- For application notes and feature details, please visit our web site at [www.BigelowBrook.com/timer](http://www.BigelowBrook.com/timer).
- Comments or questions and be emailed to [info@BigelowBrook.com](mailto:info@BigelowBrook.com).



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<sup>1</sup> IX-150 and IX-180 contain a display; IX-100 does not.

<sup>2</sup> IX-100 USB interface mimics a COM port which is accessed via a terminal emulator. Device driver software may be required. USB cable not included.