

# DEMAND RESPONSE INTERFACE Installation Guide



## Overview

This guide covers model number ERDRI-AU equipped with a 902 MHz radio.

The ERDRI interface is intended for indoor use only.

The interface is a dedicated contact closure interface that ensures your system can respond to Demand Response requests from the power utility.

The interface sends a Demand Response command to your lighting system when the input is closed and a DR cancel when the input is open. An on-board LED array indicates Demand Response threshold level and input state.

## Interface Operation

The control input is driven by any Open ADR appliance with a dry contact output. Once triggered, a command is sent to Echoflex dimming controllers which assigns a temporary maximum dimming level. Linked sensors and switch stations will not drive the dimming output above this new level. The programmed Demand Response event can be canceled at any time or be allowed to time out.

The interface allows Energy Code Acceptance Test technicians to easily trigger the events during system verification. Echoflex controllers will respond immediately so systems can be approved quickly.

## Preparing to Install the Interface

The interface can be mounted to a wall or panel using two screws (not supplied).



**Note:** *Installation inside a metal back box will reduce wireless range and is not recommended*

---

Do not locate the interface where there are concrete or brick walls or any large metal obstructions between the interface and linked controllers.



**Note:** *Follow all local code requirements for low voltage wire termination. Indoor use only*

---

## Installing the Interface

Review these instructions completely before installing the interface. For the best results, the interface should be mounted on a wall with no metal obstructions, brick or concrete between the remote devices and the interface.

The interface should be located near where the OpenADR device is installed. Consult your local electrical code requirements for the installation of low voltage devices.

1. To wall mount the interface hold in the desired mounting location
2. Use a pencil to mark the two mounting holes
3. Remove the station and drill the required mounting holes
4. Install anchors (if required)
5. Using screws (not provided), attach the interface to the wall. The controllers mounting holes accept screws sized #4 through #10
6. Connect power to the interface at the two pole terminal strip. Power requirements are 8-30VDC or 24VAC, minimum 250mA, Class 2
7. Strip both wires from your control device, removing 1/4" (6mm) of wire insulation
8. Insert the stripped control wires into the channel terminals labeled 5 VDC and "IN" and tighten both screw terminals with a small flathead screwdriver

## Interface Buttons

**SELECT** - Allows you to select from four demand response threshold levels. The default values are 70%, 75%, 80% and 85%, left to right and indicated by LEDs. The interface supports momentary and maintained input contacts. When selecting the threshold, the corresponding LED will be on solid for a maintained contact and blinking for a momentary contact.

1. Press and hold for three seconds to change from maintained to momentary or to the next the threshold value.
2. After releasing the button, you can change the selection by tapping the button allowing you to scroll through the eight options quickly.

**RESET** - Allows you to reset the interface to factory default values.

1. Press and hold for three seconds to reset. The LEDs will blink twice when the interface resets.

**TEACH** - Allows you to Link or Teach the interface to remote receivers that are currently in Learn mode.

1. Place the receiver in Learn or Link mode by pressing the Learn button on the receiver. If necessary, consult the manufacturers documentation.
2. Press and hold the Teach button on the interface for 3 seconds. The selected channels Channel Mode LED will light solid for 2 seconds to confirm the request.
3. Exit Learn mode at the receiver.

## Interface LEDs

**LEDs 1 - 4** Indicate threshold level.

LED State	Threshold Value (defaults)	Input Type
LED 1 Solid	70%	Maintained
LED 1 Blinking		Momentary
LED 2 Solid	75%	Maintained
LED 2 Blinking		Momentary
LED 3 Solid	80%	Maintained
LED 3 Blinking		Momentary
LED 4 Solid	85%	Maintained
LED 4 Blinking		Momentary

**Input LED State** - Green Active, Red Inactive

## Repeating - enable or disable telegram repeating

1. Press and hold the Teach button.
2. While holding, press the EEP Select button, twice to enable repeating, once to disable.
3. Release the Teach button.

## FCC and IC Certifications

Contains FCC ID: SZV-STM300U



The enclosed device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (i.) this device may not cause harmful interference and
- (ii.) this device must accept any interference received, including interference that may cause undesired operation.

Contains IC: 5713A-STM300U

Copyright 2019 Echoflex Solutions, Inc. | Specifications subject to change without notice.



### Echoflex Solutions

38924 Queens Way, Unit #1, Squamish, BC, V8B 0K8, Canada ■ +1 778-733-0111  
echoflexsolutions.com ■ Document Part # 8DC-5834-1.2 ■ 7188M21-5834-1 Rev B ■ 01/19