Contents

All specifications are subject to change without notice.

1007 Whitehead Road Ext Trenton NJ 08638 609.530.1055 www.reesscientific.com

Output-8 Board

Control functions such as HVAC, lighting control, pumps/blowers, thermostats, electrical doors/gates, sprinklers/watering control, etc., require the addition of output boards. The output-8 board for a Centron allows up to 8 single pole double throw 3 Amp. relay contacts to be controlled through the software. Up to 8 boards may be connected to the system for a total of 64 outputs. The expandable Centron can take up to 8 output boards. Each output board can control up to 8 outputs.
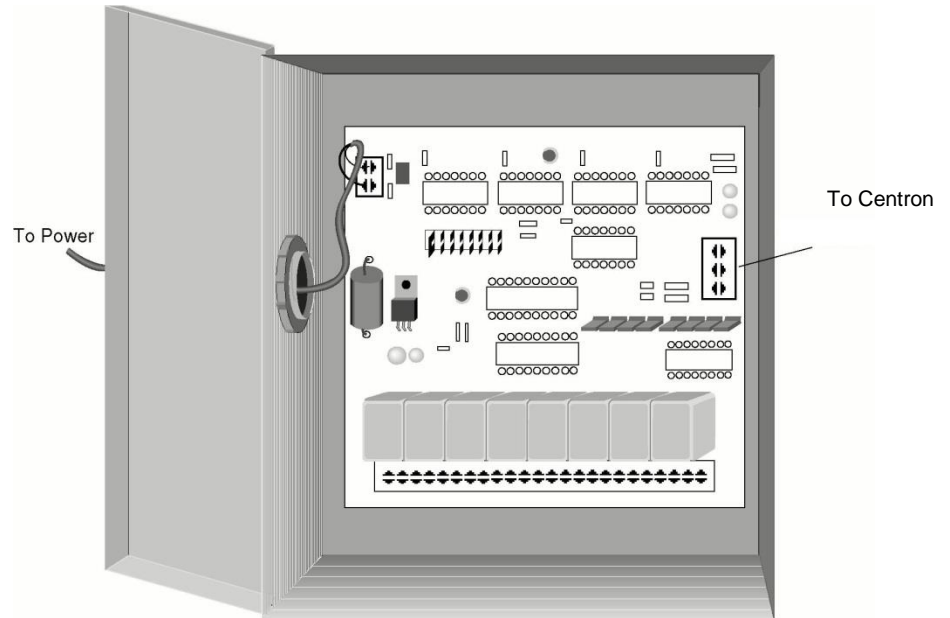
Specifications:

- To drive higher current loads, use the relay box model RELAY-PWR.
- When used with specified Z3 equipment use Z3-Output-CBL.

Connection:

- Powered by a 17 VAC wall plug-in transformer.
- Requires 120 VAC or 230 VAC Power.
- Utilize 3 conductor, 22AWG wiring between Output Panel and the main node and any devices.
- Dimensions: 8.25" H x 7.5" W x 3.625" D

Type	Part #
Output-8 Board	OUTPUT-8
Use with Z3	Z3-OUTPUT-CBL

Output-8 Board with Power

Control functions such as HVAC, lighting control, pumps/blowers, thermostats, electrical doors/gates, sprinklers/watering control, etc. require the addition of output boards. The OUTPUT-8-PWR board for a Centron contains a 24 volt transformer to drive up to eight 30 Amp. double pole double throw contactors (model # RELAY). Contactors should be used when switching 115V high current circuits. Up to 8 boards may be connected to the system for a total of 64 outputs.

To Centron

Romex: Wired to 120V

To devices being controlled
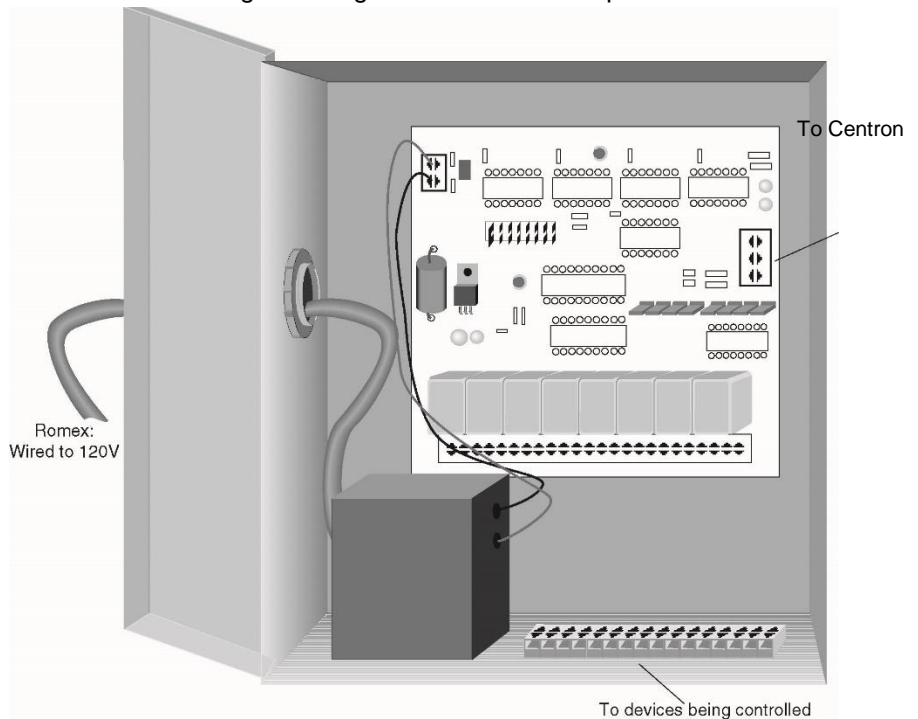
Specifications:

- The OUTPUT-8-PWR comes with a 24VAC 4 Amp. transformer. Use the contactor model # RELAY with the OUTPUT-8-PWR.
- This combination is capable of handling 30 Amp. 1 HP loads.
- When used with specified Z3 equipment use Z3-Output-CBL.

Type	Part #
Use with Centron	OUTPUT-8-PWR
Use with Z3	Z3-OUTPUT-CBL

All specifications are subject to change without notice.

1007 Whitehead Road Ext Trenton NJ 08638 609.530.1055 www.reesscientific.com

Output-8-Net

The Output 8 Net is network connectable output relay panel. Control functions such as HVAC, lighting control, pumps/blowers, thermostats, electrical doors/gates, Animal watering system flushing, etc., require the addition of output boards. The Output-8 board allows up to 8, single pole double throw, 3 Amp. relay contacts to be controlled through the software. Up to 8 boards may be connected to the system for a total of 64 outputs.

Specifications:
- To drive higher current loads, use the relay box model RELAY-PWR.
- Dimensions   14.375 W X 14.375 H X 3.5 D (inches)

Connection:
- Requires 120 VAC or 230 VAC Power.

Type	Part #
Output-8 Board	OUTPUT-8-NET
Output-8 Board for Europe	OUTPUT-8EVNET

Output-8-Net with Power

The Output 8 Net with 24 VAC Power is network connectable output relay panel. The OUTPUT-8-PWR board contains a 24 volt transformer to control up to eight external relay contactors with 24 VAC coils (PART # RELAY). Contactors should be used when switching high current circuits. Up to 8 boards may be connected to the system for a total of 64 outputs.

Specifications:

- The OUTPUT-8-PWR comes with a 24VAC 4 Amp. transformer. Use the contactor PART# RELAY with the OUTPUT-8-PWR to control high current loads.
- This combination is capable of handling 30 Amp. 1 HP loads.
- When used with specified Z3equipment use Z3-Output-CBL.
- Suitable for surface or flush mount.

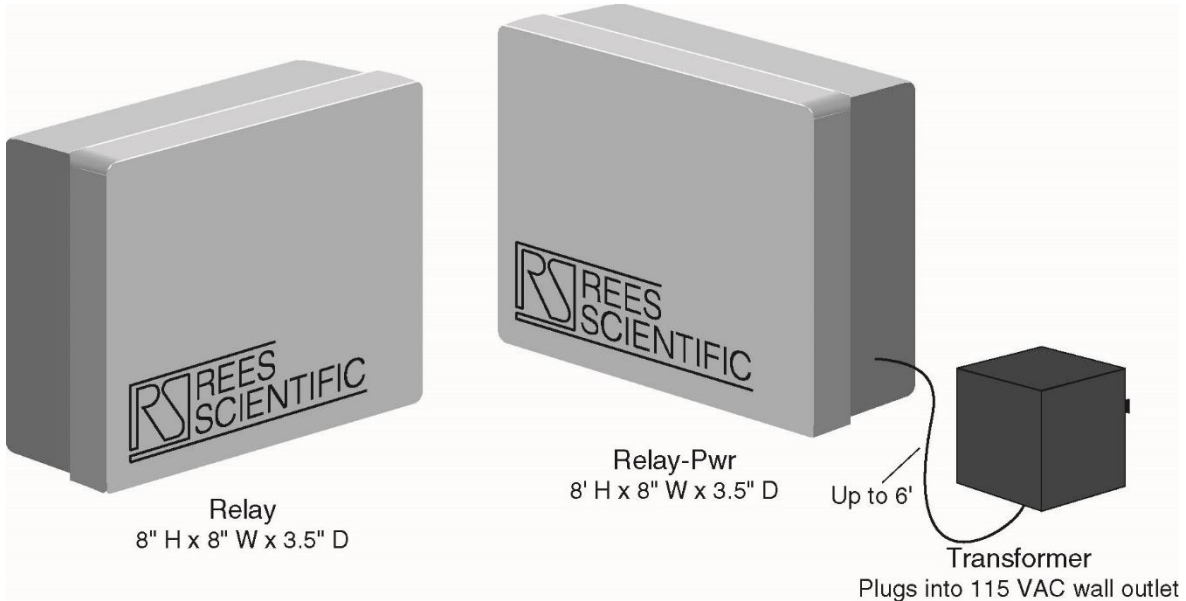**EV**

- For connection to 220/240 VAC

Type	Part #
Use with Centron	OUTPUT-8PWRNET
Use with Centron for Europe	OUTPUT-8PWREVN
Use with Z3	Z3-OUTPUT-CBL

Relays

Use the Centron to control functions such as HVAC, lighting control, pumps/ blowers, electrical doors/ gates, sprinklers/watering control, etc. Control functions require the addition of output boards and relays.

Relay
8" H x 8" W x 3.5" D

Relay-Pwr
8' H x 8" W x 3.5" D

Up to 6'

Transformer
Plugs into 115 VAC wall outlet

Specifications:

RELAY:
- Power relay capable of handling 30 Amp 1 HP loads.
- 24 VAC @ 410mA coil.
- It can be connected directly to the OUTPUT-8-PWR.
- Up to 8 relay boxes can be connected to each OUTPUT-8-PWR.

RELAY-PWR:
- The same relay as the RELAY-BOX, but it has its own 24 VAC supply.
- This can be connected directly to the OUTPUT-8 (does not require an OUTPUT-8-PWR).
- A 115 V outlet receptacle is required near where the RELAY-PWR is to be located.

Type	Part #
Use with OUTPUT-8-PWR (US & Europe)	RELAY
Use with OUTPUT-8 (US)	RELAY-PWR
Use with OUTPUT-8(Europe)	RELAY-PWR-EV

All specifications are subject to change without notice.

Z3 Direct with Relay

Z3 Direct module with single SPDT relay. Suitable for controlling remote audio/visual alarms. Works with ReesCloud and on-premises installations. Easily monitor sensors on the other side of your facility, across town or across the globe. This module plugs right into your network and will monitor 1, 2 or up to 4 inputs. Ideal for equipment rooms, operating rooms, nurse's station, etc.

Specifications:

- Buffers 7 days of readings history recorded at 15 minute intervals.
- Accepts any type of Rees Scientific or industry standard input and provide 12 bit analog to digital conversion accuracy.
- 1 input, 2 input and 4 input transmitters available.
- Can be added to existing systems. A single system can contain wired and wireless sensors.
- Dimensions (enclosure) 3.295 W X 3.295 H X 1.25 D (inches)
- Battery backed up
- Capable of connecting to an output, output board, and local alarms.
- Relay: SPDT type with 1 AMP @ 24 VAC Contactors
- 3.295 W X 3.295 H X 1.25 D (inches)

Type	Part #
1 input	Z3-Direct-U1-R
2 input	Z3-Direct-U2-R
4 input	Z3-Direct-U4-R

7

Remote Audible and Visual Alarms

Specifications:

Remote Audio/Visual Alarm (REM-AUDVIS-1)
- Indoor and outdoor use
- Color : White
- Wall mounted
- Strobe flash rate: 1 strobe per second
- Sound Output : Adjustable 81-101 dBA
- Dimensions: 5.6" height x 4.7" width x 2.5" depth
- Operating Voltage: 24 V DC

Remote Audio/Visual Alarm (REM-AUDVIS-2)
- Indoor use only
- Single gang stainless steel plate with surface mount box
- Wall mounted
- Red LED light and audio indicator
- Sound Output: Adjustable 0-100 dBA @10 cm (min)
- Dimensions: 4.5" height x 2.75" width (.687" Diameter LED)
- Operating Voltage: 24 V DC

Remote Alarm with Red/Green LED (REM-RG-2)
- Indoor use only
- Double gang stainless steel plate
- Wall mounted
- Red and green LED lights with an audio indicator
- Sound Output: Standard Indoor 100 dBA @10 cm (min)
- Dimensions: 4.5" height x 4.5" width (.687" Diameter LED)
- Operating Voltage: 24 V DC

Can be used with all Centron units

Type	Part #
Remote Audio Visual Alarm (white strobe light)	REM-AUDVIS-1
Remote Audio Visual Alarm (red LED)	REM-AUDVIS-2
Remote Audio Visual Alarm (red and green LED light)	REM-RG-2

All specifications are subject to change without notice.

1007 Whitehead Road Ext Trenton NJ 08638 609.530.1055 www.reesscientific.com

Remote Audible and Visual Alarms

Specifications:

Remote Visual Alarm (REM-VIS-1)
- Indoor use only.
- 120 cd xenon strobe with choice of color from amber, blue, green or red.
- Current draw: 200 mA @ 12VDC.
- Strobe rate: 60/minute.
- Intensity: 120 cd.
- 12 VDC wall transformer included.

Remote Audible Alarm (REM-AUD)
- Indoor use only.
- 79 dbA @ 10 feet.
- A red,16 ga steel box with a lexan face.
- Current draw: 208 mA @ 12 VDC
- 12 VDC wall transformer included

Remote Alarm with Red/Green LED (REM-RG-3)
- Indoor use only
- Single gang stainless steel plate
- Wall mounted
- Red and green LED lights
- Dimensions: 4.5" height x 2.8" width (1" Diameter LED)
- Operating Voltage: 24 V DC

Type	Part #
Visible	REM-VIS-1
Indoor Audible	REM-AUD
Red/Green LED	REM-RG-3

Can be used with all Centron Units

BACnet LCD Display

The BACnet LCD display can be used anywhere there is a need to show the calibrated reading from the Rees system. It can be outside or inside a lab, in clean rooms, or in areas that are going to be washed down.

Specifications:

LCD

- Displays up to 3 system inputs (Temp, Humidity, DP)
- LCD with Enclosure dimensions: 6.71" x 4.76" x 2.17"
- Operating Voltage: 24VDC (separate panel that provides power is usually required)
- Operating Current: 100mA
- Operating Temperature: 0°C to 40°C (32°F to 104°F)
- RJ-45 Ethernet connection required
- Communicates with Centron Node via BACNet/IP

Type	Part #
BACNet/IP version of the LCD	.LCD-DSPDIG-4BN
Centralized power panel with up to 20 4.3"	.LCD-DSP-7-P

All specifications are subject to change without notice.

1007 Whitehead Road Ext Trenton NJ 08638 609.530.1055 www.reesscientific.com