

## Model RSE-300 Remote Signal Expander

### Features

- 6 amps of Notification Appliance Power
- Advanced Microprocessor Control
- 24Vdc Output Voltage @ 6 Amps Max.
- Four Power-Limited Notification Outputs
- Strobe Synchronization
- Synchronized ANSITemporal Pattern
- Two-Wire Horn/Strobe Sync Mode with Horn Silence
- Class "A" or "B" Selectable
- Ground Fault Detection
- Battery Supervision
- 3 Amp Auxiliary Power Output
- Trouble Contact for Monitoring
- UL Listed and FM Approved

### Description

The Model RSE-300 is a notification appliance circuit expander with a built-in auxiliary power output. This power source is designed to provide power for notification appliances, door holders and 4-wire smoke detectors.

The RSE-300 provides 6 amps of 24 Vdc power for multiple uses. All 6 amps can be directed to 4 Notification Appliance Circuits (NAC s). Each is rated at 3 amps and is power limited. Either 1 or 2 inputs can control the four outputs. These outputs are compatible with Faraday notification appliances.

The RSE-300 can be configured so that the inputs can be programmed to provide steady outputs, ANSI temporal outputs, or synchronized horn/strobe outputs. It can also be programmed to silence Faraday sync horns while the sync strobes remain on, using two wires. This requires a silenceable and non silenceable input.

The RSE-300 also offers a 3 amp auxiliary output for driving other portions of your fire alarm system such as door holders. This 24 Vdc filtered output is power limited, and is programmable to remain on or shut down on AC power fault.



RSE-300

A trouble contact is provided for monitoring the RSE-300 with a fire alarm panel through the input. It also has a Form C dry contact for trouble monitoring. Therefore, the user has the option of connecting it to a conventional fire alarm panel's existing notification circuit, or controlling it with a TRI series device on intelligent fire systems.

The RSE-300 offers battery supervision and management as is required of fire alarm system components. Ground faults are transmitted as are any other trouble conditions. Trouble conditions not only change the state of the trouble contact in the unit, but they also break the notification circuit input to create a trouble signal in the fire alarm control.

This product is packaged in its own sheet metal enclosure with enough space to house the 7 amp-hour battery set required for backup. The enclosure is red and displays the Faraday logo.

### Options

One or both RSE-300 signal inputs control the notification outputs, depending on the specific configuration setup. For possible configurations for the RSE-300 please see chart on following page.

For Option:	These Inputs	Control These Options:	As:
1	Input 1	All Outputs	Class B Circuits
2	Input 1 Input 2	All Outputs Silences horns on 1	Class B Circuits
3	Input 1 Input 2*	Outputs 1 & 2 Outputs 3 & 4	Class B Circuits Class B Circuits
4	Input 1 Input 2	Output 1 Outputs 2, 3 & 4	Class B Circuits Class B Circuits
5	Input 1	Outputs 1-2 & 3-4	Class A Circuit Pairs
6	Input 1 Input 2*	Outputs 1-2 & 3-4 Silences horns on 1	Class A Circuit Pairs
7	Input 1  Input 2	Outputs 1-2  Outputs 3-4	Class A Circuit Pairs  Class A Circuit Pairs
8	Input 1  Input 2	Outputs 1-2  Outputs 3 and 4	Class A Circuit Pairs  Class B Circuits

## Supervision

The RSE-300 supervises a variety of functions including:

- Low AC power
- Low battery condition
- Earth ground fault
- Auxiliary output power limit condition
- EOL supervision trouble or power limited condition at an output

When a trouble condition occurs, the RSE-300 creates a trouble condition on the fire control signal circuits to which it is connected. It still maintains the ability to be activated by the fire control. In addition, the RSE-300 provides a Form "C" trouble relay output as an alternative to using the notification circuit trouble.

## Electrical Specifications

### AC Input:

120 Vac @ 2.5 amps

### Output:

24Vdc @ 6 amps

### Auxiliary Power Circuit:

1

### Notification Circuits:

4

### Output Configuration:

2 Class A or 4 Class B or 1 Class A & 2 Class B

### Amps per Output Circuit:

3.0

### Notification Circuit Outputs:

24 Vdc at 3.0 amps each, 24K ohm EOL resistor required on each Class B circuit

### No. of Inputs:

2

### Input Configuration:

2 Class B or 2 Class A

### Input Voltage Range:

18-30 Vdc/VFW

### Maximum Input Current:

0.006 Amps

### Battery Charging Capacity:

15 AH

Note: For battery sets larger than 7AH, a separate enclosure is required. See ordering information below.

### Trouble contact rating:

2.5A @250 Vac, 30 Vdc

### Ambient Temperature:

32° to 120°F (0° to 49°C)

## Mechanical Specifications

### Dimensions:

12" (W) x 16" (H) x 3" (D)

### Color:

Red

## Indicator Lights

AC Power On: Green  
 Battery Trouble: Yellow  
 Ground Fault: Yellow  
 Auxiliary Trouble: Yellow  
 Output 1 Trouble: Yellow  
 Output 2 Trouble: Yellow

## Ordering Information

Model	Description	Part No.
15073	Remote Signal Expander	599-699110FA
14050	Battery cabinet, red	500-648453FA
14047	24Vdc battery set, 7AH	500-648380FA
14048	24Vdc battery set, 10AH	500-648381FA
14049	24Vdc battery set, 18AH	500-648382FA



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