ASD-RDU Securiton Remote Display

Configuration and Operators Manual

Australia   Version 1.0   Sep-2023

ASD-RDU-BASIC

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1   Introduction

The Remote Display Unit (ASD-RDU) can be a vital component for monitoring and reporting the status of a Securition aspirating smoke detector. This display module offers a clear visual representation of the Alarm, Fault, and Disablement status of the connected unit.

Designed with practicality in mind, the ASD-RDU is both compact and easy to install. It can be conveniently mounted up to 100 meters away from the Securition detector, allowing for basic control and providing continuous visibility into the states of a single Securition detector.

For added security, the ASD-RDU unit can be equipped with a key switch to prevent unauthorized access. Additionally, an IP54 mounting kit is available, complete with a protective cover, for use in harsh environments.

Securiton ASD Range
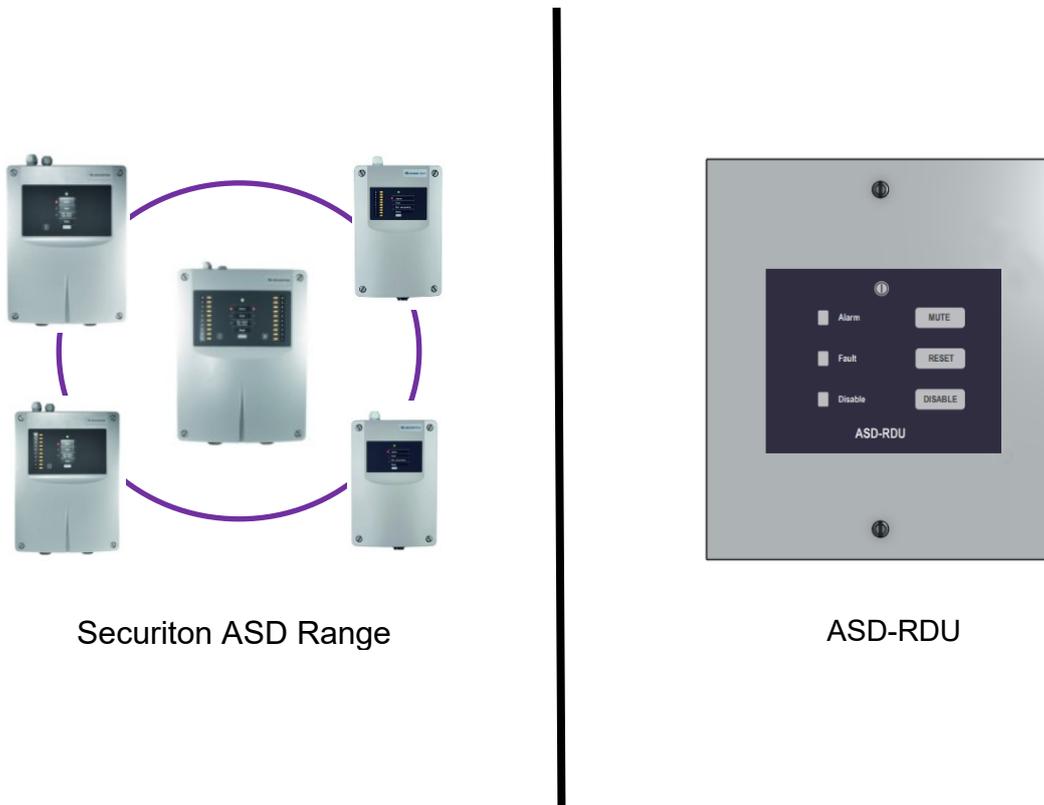
ASD-RDU

2 Remote Display

2.1 General

The ASD-RDU unit is fully compatible with the entire range of Securition aspirated smoke detectors. It connects to these detectors using a 6-wire configuration. It is important to note that each ASD-RDU unit can control and display the status of a single ASD detector.

If multiple detectors need to be monitored, a separate ASD-RDU unit will be required for each individual detector.

The ASD-RDU monitors both the Alarm and Fault Relay activations. When it detects an abnormal condition, such as an alarm or fault, it will activate a built-in buzzer to alert you. The buzzer can be muted and the detector can be reset using the controls located on the ASD-RDU unit. If a security key switch is installed, it must be enabled before control can be accessed.

2.2 Visual Indications

The ASD-RDU display provides users with four distinct visual indications for overall system status. These indications are as follows:

1. **POWER**: This indicator illuminates when 24V power is present, confirming that the ASD-RDU unit has 24V power.

2. **ALARM**: When the **ALARM** indicator is illuminated, it signifies that the remote unit is in an alarm state. This is a critical alert indicating the presence of smoke.

3. **FAULT**: The **FAULT** indicator lights up to inform users that the remote unit has entered a fault state. A fault condition typically indicates a problem or malfunction with the system and requires attention.

4. **DISABLE**: When the **DISABLE** indicator is active, it indicates that the ASD detector connected to the ASD-RDU unit locally disabled. In this state, the ASD detector will not trigger an alarm or fault condition.

Note: It's important to understand that when the ASD detector is locally disabled, the ASD-RDU unit will not display alarm or fault condition, even if an alarm or fault condition is still present in on the system.

2.3 Controls

The ASD-RDU unit is equipped with three standard controls and an input for an external Security key switch.

1. **Mute**: The Mute control serves the purpose of silencing the internal buzzer when activated. This is particularly useful in situations where an audible alarm has been triggered, and silence is required without affecting the overall system status.

2. **Reset**: The Reset control performs two critical functions. When activated, it attempts to reset the ASD detector connected to the ASD-RDU unit. Additionally, it clears any existing Disablement status, allowing the detector to resume normal operation.

3. **Disablement**: Activating the Disablement control serves to disable the connected ASD detector temporarily. This action prevents further alarms or faults from being triggered by the detector. Use this feature when it's necessary to temporarily disable the detector operations without disconnecting it entirely.

Optional Security Key Switch: If an external Security key switch has been integrated, it must first be enabled to grant access to the standard controls. The inclusion of this feature is especially valuable when the ASD-RDU unit is deployed in public locations, as it adds an extra layer of security by requiring authorisation before control functions are accessible.

These controls offer users the ability to manage and respond to alarm and fault conditions effectively, as well as control the operation of the connected ASD detector, ensuring the safety and security of the environment.

2.4   Terminations

All field connections are conveniently made through the PCB terminal located at the rear of the ASD-RDU unit. To facilitate installation and serviceability, the display can be detached by simply removing the connection ribbon cable.

The following connections are required for proper operation:

1. **Power**:
   - **24V DC**: Connect the 24V DC power source to the corresponding terminal.
   - **0V DC**: Connect the 0V DC (ground) to the appropriate terminal.

2. **Reset Control**:
   - **+ Control Line**: Connect the positive control line for the Reset function.
   - **- Control Line**: Connect the negative control line for the Reset function.

3. **Status**:
   - **Alarm SW+**: Connect the Alarm status switch positive line.
   - **Fault SW+**: Connect the Fault status switch positive line.

4. **Security Key Switch**:
   - **Common (Com)**: Connect the common terminal of the Security Key Switch.
   - **Normally Closed (N/C)**: Connect the normally closed terminal of the Security Key Switch.

These connections are essential for the proper functioning of the ASD-RDU unit. Remember that the display can be detached easily using the connection ribbon cable, making installation and maintenance more straightforward.
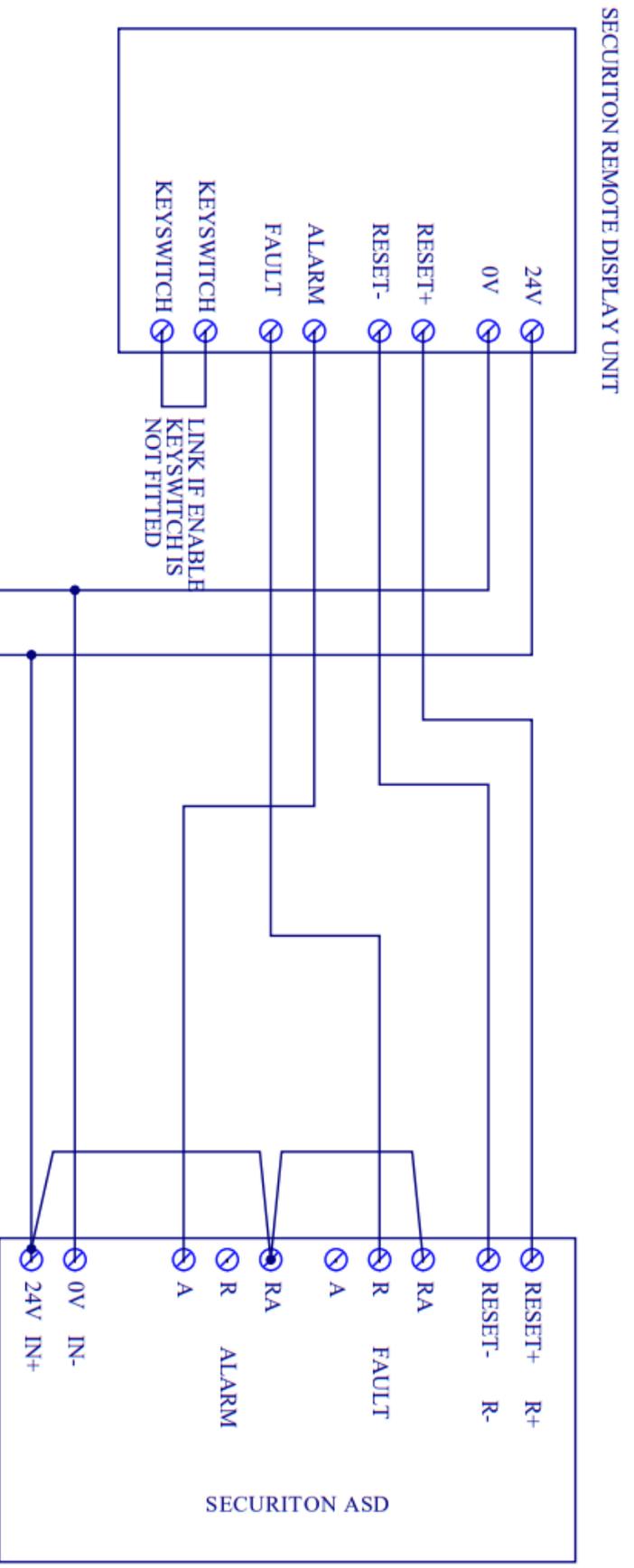
A connection diagram illustration for the ASD-RDU unit is provided at the back of this manual. This diagram should help you correctly connect the various components and terminals required for proper installation and operation.

Please refer to the provided connection diagram for a clear and detailed overview of the connection process. If you have any questions or need further assistance, please do not hesitate to contact Incite Fire support for additional guidance.

3 Specifications:
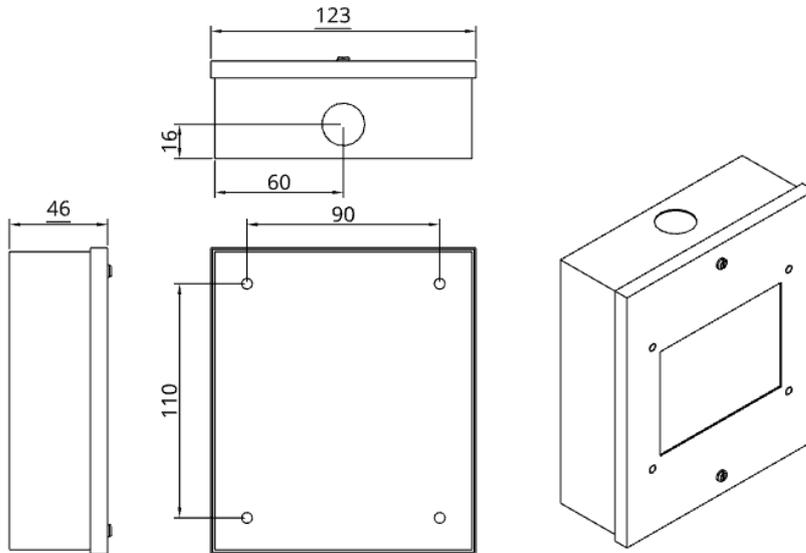
Specifications	Description
Operation Voltage Range	18 to 33V DC
Dimensions (WHD)	123mm x 144mm x 46mm
IP Rating	IP30
Finish	Epoxy powder coated
Colour - lid & box	BS 00 A 05 grey - fine texture
Optional IP54 Housing (STI14100NC)	183mm x 207mm x 85mm
Operation Temperature	0 to 45 deg C
Humidity	10-99% non-condensing
Indications	High Intensity LEDs
Push Button Keys	Tactile switch 100,000 cycles

Typical Connection Drawing

SECURITON REMOTE DISPLAY UNIT

KEYSWITCH
KEYSWITCH
FAULT
ALARM
RESET-
RESET+
0V
24V

LINK IF ENABLE KEYSWITCH IS NOT FITTED

AUX 24V

24V IN+
0V IN-
A
R
RA ALARM
A
R
RA FAULT
RESET- R-
RESET+ R+

SECURITON ASD

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