


School Lockdown/ Conditional Access Solution
 This document details a hardware based lockdown solution that overrides existing door schedules and provides conditional door access based on user code profile. It uses four zones, four resistors, two relays, a 431 output harness, a double pole double throw switch and two virtual areas.

The lockdown is enabled by turning on a double pole double throw switch which shorts an arming zone with a maintain setting that arms an area that turns on the lockdown relay (output 1). The other pole of the same switch arms the access area of the door which causes all the doors to lockdown using the override feature.

Once the lockdown has been enabled access is denied to any personnel who do not have appropriate permissions in their user code profile to disarm the access area for that door.

For those users who do have the ability to disarm the access area access is granted and output group 1 fires which causes output 2 to fire momentarily which shorts the arming zone and rearms the access area immediately after access is granted and locks the door behind the user.

When the lockdown is no longer required the switch is moved to the other position which disarms the lockdown area and turns off output 1. The other pole of the switch disarms the access area and returns the system to normal operation.

Architects and Engineers CAD Drawings		 Digital Monitoring Products <small>2841 E. Industrial, Springfield, MO 65802</small>	
FILE NAME		TITLE	Single Switch Lockdown method for XR550N App
DRAWN	DATE 4/22/2016		
CHECKED	SCALE NTS	PART NO.	RE