

1. Check that all units & parts are included, and antennas are properly connected:

- Central unit Remote unit 6 connectors (2 each: 2-pin, 8-pin, 10-pin)
- Warranty

2. Bench test. (Complete before field installation for easier troubleshooting).

- a. Set up near control panel. Use spare reader. Place Central & Remote at least 24" apart.
- b. Connect suitable power supply (8-16 Vdc @ 300 mA) to each unit.
- c. After short delay, Status LED will pulse green on each unit (power/communication).
- d. Touch jumper wire from Central's ground pin to Relay 1 input. Remote's Relay 1 activates with audible click. Multimeter/continuity tester shows Remote's Relay 1 "normally open" contacts closing when Central's Relay 1 input is activated.
- e. Select DIP Switch Settings as needed (see below).
- f. Connect reader to Remote; connect Central to panel. Scan card to ensure proper read.

DIP Switch Settings

Default settings:

- Standard Wiegand is the default Interface Type.
- By default, units are configured & labeled as one Remote and one Central unit.
- By default, Supervision relay and pull-up resistors are disabled.

Configuration Mode: *To select alternate interface, temporarily switch to Configuration Mode.*

- a) Power off both Suprex units; make sure DIP switch 3 is turned off.
- b) Turn **on** DIP switch 1 on both units.
- c) Set DIP switches as described below for the appropriate interface:
- d) Power on both Suprex units. Status LED should be solid green.
- e) Power **off** both Suprex units. Turn **off** all DIP switches on both units, then reselect Run Mode settings.

Default: Standard Wiegand	Turn on DIP switch 8
OSDP	Turn off DIP switch 6, 7, 8
Keypad (Wiegand/No Filter)	Turn on DIP switch 7
F/2F (Unsupervised)	Turn on DIP switches 6, 7, 8
Strobed Rising Edge (MR-5)	Turn on DIP switches 7 and 8
Strobe Rising Edge (Dorado 644)	Turn on DIP switch 6 on
Strobed Rising (MagTek)	Turn on DIP switches 6 and 8
Strobed Falling Edge	Turn on DIP switches 6 and 7

Run Mode: *Select Run Mode settings as described below, then power on both Suprex units to begin operating in Run Mode.*

Central / Remote Select		Turn DIP switch 3 on for Central Mode / turn off for Remote Mode
Remote Digital/Analog Relay Select		Turn Remote Unit's DIP switch 2 on for digital input / off for analog input
Supervision Relay	Relay 3, Central Unit	Turn Central Unit's DIP switch 4 on for supervision relay / off for normal relay
	Relay 1, Remote Unit	Turn Remote Unit's DIP switch 4 on for supervision relay / off for normal relay
Pullup Resistor Select		Turn on DIP switch 5 to enable pullup resistors / off to disable (applicable units)
EXP Select (Not Supported in OSDP Mode)	For no EXP	Turn off DIP switches, 6, 7, and 8 on both units
	For 1 EXP	Turn on DIP switch 8 on both units
	For 2-7 EXPs	See manual
OSDP Mode Only	Require SC	Turn on DIP switch 6 to enable / turn off to disable
	Find Reader Mode	Turn on DIP switch 8 to enable / turn off to disable

Relay locations

Relay 1 & 2 Outputs: Located on the Remote Unit / Triggered from the Central Unit.

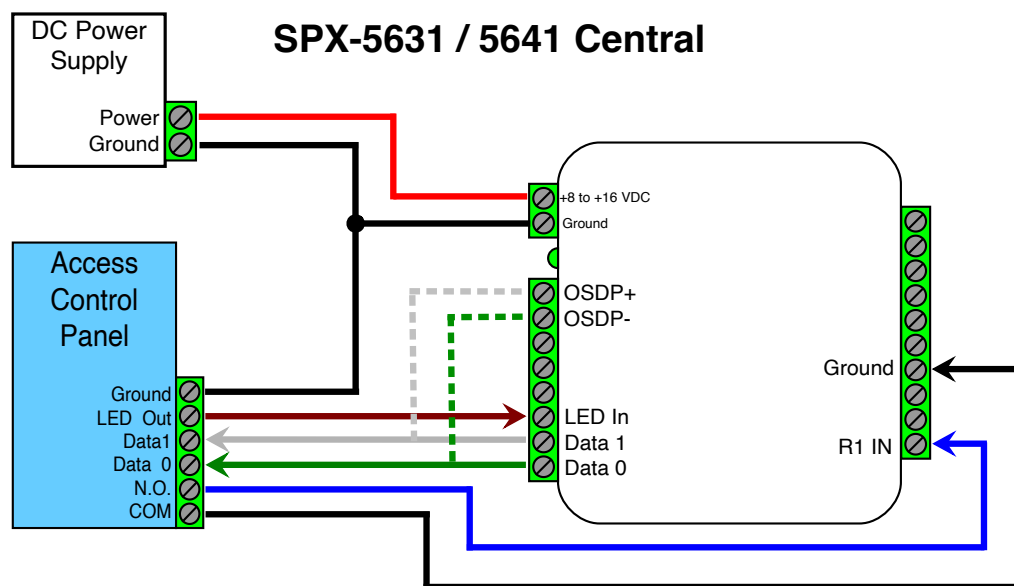
Relay 3 & 4 Outputs: Located on the Central Unit / Triggered from the Remote Unit.

3. Field Installation Checklist

- The Central unit and access control panel need a common ground.
- The Remote unit and card reader need a common ground.
- The top of each unit (where antennas are located) should point toward the sky.
- The Central and Remote units should be installed level relative to each other.
- There should be a direct line of sight between Central and Remote units (if there is no direct line of sight, a Repeater unit is recommended).
- Both the Central and Remote units should be mounted high enough to avoid interference from obstacles (vehicles, trains, buildings, trees, etc.).
- Metal mounting surfaces are not recommended. If use of a metal surface is unavoidable, space unit as far from metal surface as possible using non-metal spacer.
- Enclosure locking screws (6-32 x 3/8) max torque rating 8.5 inch-pounds.

If troubleshooting is necessary, see manual.

Typical Suprex® RF Central and Remote Wiring Connections



NOTE: dashed lines indicated OSDP wiring. Please connect to the RS-485 on the ACU, not a Wiegand port.

