

TECHNICAL SUPPORT
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DIP SWITCH SETTINGS

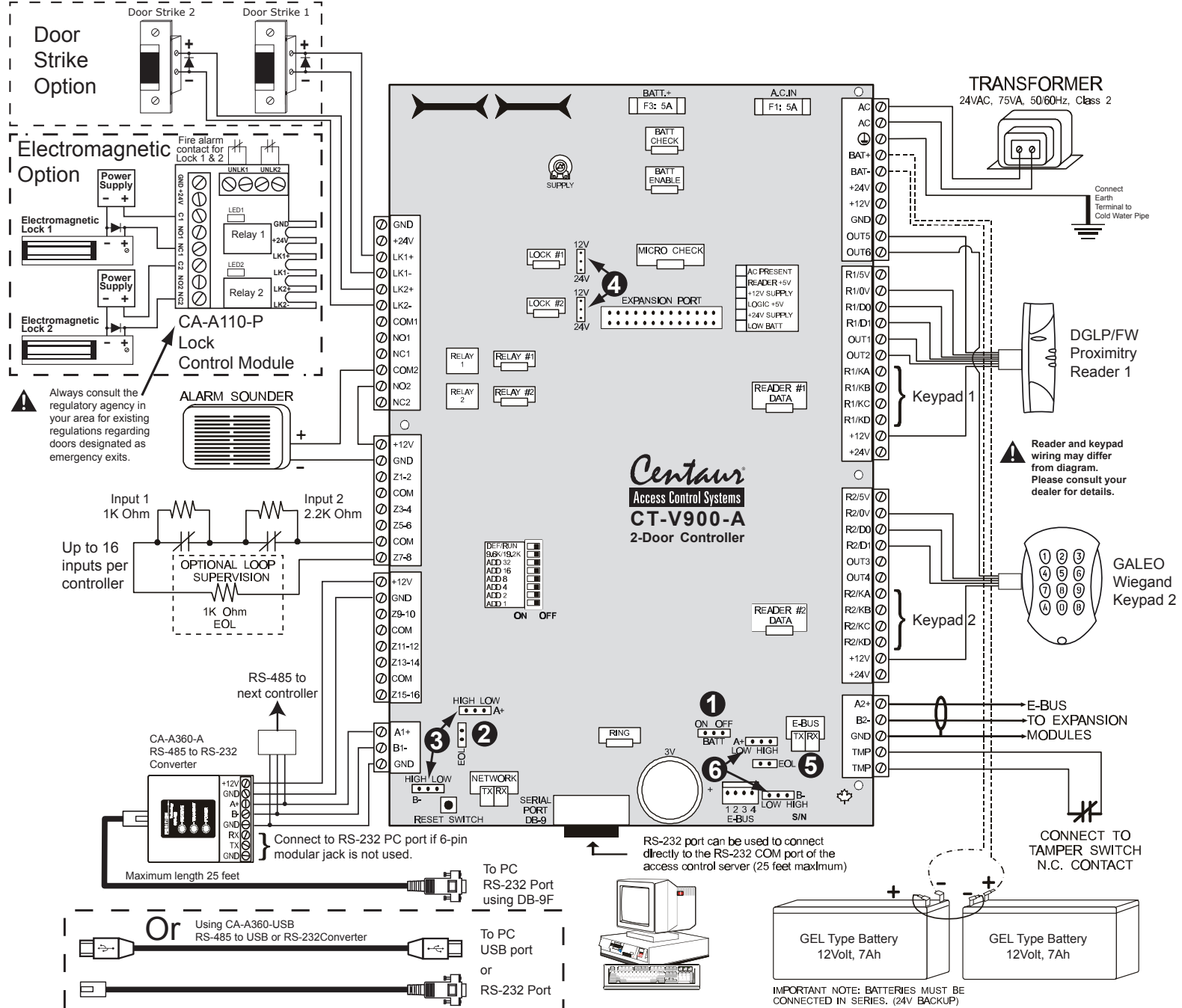
Controller address	DIP SWITCH SETTINGS							
	ADD 1	ADD 2	ADD 4	ADD 8	ADD 16	ADD 32	9.6K/19.2K	DEF/RUN
1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
3	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
4	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
5	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
6	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
7	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
8	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
9	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
10	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
11	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
12	ON	ON	OFF	ON	OFF	OFF	OFF	OFF
13	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF
14	ON	OFF	ON	ON	OFF	OFF	OFF	OFF
15	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
16	ON	ON	ON	ON	OFF	OFF	OFF	OFF
17	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
18	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
19	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF
20	ON	ON	OFF	OFF	ON	OFF	OFF	OFF
21	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
22	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
23	OFF	ON	ON	OFF	ON	OFF	OFF	OFF
24	ON	ON	ON	OFF	ON	OFF	OFF	OFF
25	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
26	ON	OFF	OFF	ON	ON	OFF	OFF	OFF
27	OFF	ON	OFF	ON	ON	OFF	OFF	OFF
28	ON	ON	OFF	ON	ON	OFF	OFF	OFF
29	OFF	OFF	ON	ON	ON	OFF	OFF	OFF
30	ON	OFF	ON	ON	ON	OFF	OFF	OFF
31	OFF	ON	ON	ON	ON	OFF	OFF	OFF
32	ON	ON	ON	ON	ON	OFF	OFF	OFF
33	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
34	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF
35	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
36	ON	ON	OFF	OFF	OFF	ON	OFF	OFF
37	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF
38	ON	OFF	ON	OFF	OFF	ON	OFF	OFF
39	OFF	ON	ON	OFF	OFF	ON	OFF	OFF
40	ON	ON	ON	OFF	OFF	ON	OFF	OFF
41	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
42	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF
43	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
44	ON	ON	OFF	OFF	OFF	ON	OFF	OFF
45	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF
46	ON	OFF	ON	OFF	OFF	ON	OFF	OFF
47	OFF	ON	ON	OFF	OFF	ON	OFF	OFF
48	ON	ON	ON	OFF	OFF	ON	OFF	OFF
49	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF
50	ON	OFF	OFF	OFF	ON	ON	OFF	OFF
51	OFF	ON	OFF	OFF	ON	ON	OFF	OFF
52	ON	ON	OFF	OFF	ON	ON	OFF	OFF
53	OFF	OFF	ON	OFF	ON	ON	OFF	OFF
54	ON	OFF	ON	OFF	ON	ON	OFF	OFF
55	OFF	ON	ON	OFF	ON	ON	OFF	OFF
56	ON	ON	ON	OFF	ON	ON	OFF	OFF
57	OFF	OFF	OFF	ON	ON	ON	OFF	OFF
58	ON	OFF	OFF	ON	ON	ON	OFF	OFF
59	OFF	ON	OFF	ON	ON	ON	OFF	OFF
60	ON	ON	OFF	ON	ON	ON	OFF	OFF
61	OFF	OFF	ON	ON	ON	ON	OFF	OFF
62	ON	OFF	ON	ON	ON	ON	OFF	OFF
63	OFF	ON	ON	ON	ON	ON	OFF	OFF
64	ON	ON	ON	ON	ON	ON	OFF	OFF

SPECIFICATIONS

Max. Current: 2.5A
AC Loss Indicator: Yes
Operating Temperature: 5°C to 55°C (41°F to 133°F)
Inputs: 2 readers inputs (multiple protocol support)
 2 Wiegand and/or BCD Keypads
 8 Multi-Purpose using N.C. or 16 using ATZ with 2R/3R
 Controller Tamper: Normally Closed (N.C.)
Outputs: 2 Lock Outputs: 350mA @12/24VDC
 2 Form "C" Relays: 5A 30VDC Resistive (Expandable to 16 with CA-A460-P)
 6 Open Collector 25mA Sink
System Autonomy: 100% Off-line Operation
Controller Network: RS-485/232 @ 9.6K baud/19.2K baud
Max. Distance: 1220m (4000ft.) E-Bus and Network Bus
On-Board Protection: 24VDC: 2.5A Fuseless Protection
 12VDC: 1A Fuseless Protection
 5VDC: 1A Fuseless Protection
 AC Protection: 5A Fuse
Battery Protection: 7A Fuse
Fuse Failure Indication: Event Generation and LED Display on ALL supplies
Battery Backup: Battery capacity: Two 12VDC, 7Ah
 Low Battery @: 21.6VDC
 Low Battery Restore @: 24.1VDC
 Low Battery Cut-Off @: 18.5VDC
Firmware: On-Line Upgradable

JUMPER SETTING

- BATT ON:** When the jumper is "ON", the controller enables the RAM and RTC battery backup (default = ON). Once the controller is installed, remove the battery protection tab for correct operation. If you are required to replace the 3V backup battery, we recommend that you set the jumper to "OFF" until the battery is replaced. Note however, if a complete power loss occurs, the time and date as well as all controller programming will be lost.
- EOL (CONTROLLER NETWORK):** Places the EOL termination of the main controller network in circuit (default = off). Jumper should only be on when the controller is the last controller in the network.
- HIGH/LOW (NETWORK IMPEDANCE):** Select the impedance of the RS-485 network (default = high). Set both jumpers to high when running normally. When running the Centaur software and connecting directly to the 9-pin serial port, you must set both jumpers to low.
- 12V/24V (LOCK #1 & LOCK #2):** Selects the output voltage of the "LK1+" & "LK2+" terminal when the Lock#1 and Lock#2 relay is active (default = 12V). When the jumper is on pins 1 & 2 the output will be 12V. If the jumper is on pins 2 & 3 the output will be 24V.
- EOL (E-BUS NETWORK):** Places the EOL termination of the controller's E-Bus network in circuit (default = on). If the controller is at the end of the E-Bus network, the jumper should be on. If the controller is in the middle of the E-Bus network, the jumper must be off.
- HIGH/LOW (E-BUS IMPEDANCE):** Select the impedance of the E-bus for the RS-485 (default: low). Set to low when running normally. Set to high when running special E-Bus devices.



Equipment	Wire Type	Size	Max. Length
Card reader (1 LED or 1 LED & Buzzer) and Wiegand keypad	6 conductors, stranded, shielded (foil), drain conductor, Belden: 5304FE	18AWG	150m (500ft.)
Card reader (2 LEDs & Buzzer)	8 conductors, stranded, shielded (foil), drain conductor, Belden: 5306FE	18AWG	150m (500ft.)
Zone input	4 conductors, copper (JKT)	22AWG	600m (2000ft.)
Door strike and AC transformer for controller	2 conductors, solid copper	18AWG	Door strike: 150m (500ft.), AC transformer: 8m (25ft.)
RS-485 bus	Ethernet CAT 5 ^e , 4 pairs	24AWG	1220m (4000ft.)