HOW TO UPGRADE AN ACM12
& 4/6 WIRE READER CONNECTIONS

Figure 6: Connecting for Firmware Upgrade (CONV4USB)
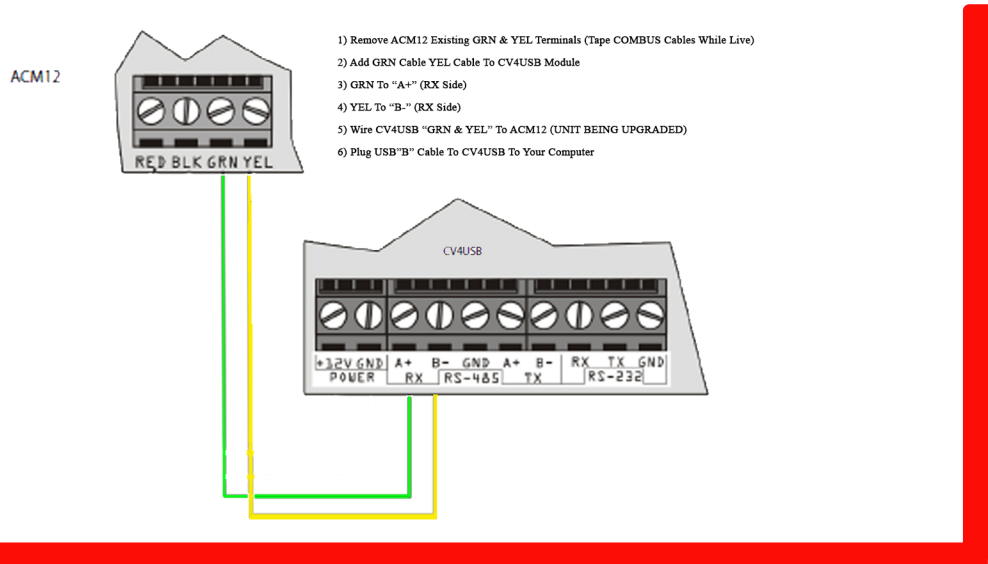
ACM12

1) Remove ACM12 Existing GRN & YEL Terminals (Tape COMBUS Cables While Live)
2) Add GRN Cable YEL Cable To CV4USB Module
3) GRN To "A+" (RX Side)
4) YEL To "B-" (RX Side)
5) Wire CV4USB "GRN & YEL" To ACM12 (UNIT BEING UPGRADED)
6) Plug USB"B" Cable To CV4USB To Your Computer

RED BLK GRN YEL

CV4USB

+12V GND   A+   B-   GND   A+   B-   RX   TX   GND
POWER   RX   RS-485   TX   RX   RS-232

Figure 3: Connecting a 4-Wire Reader (R910 / R915)

⚠️ If the ACM12 loses communication with the reader, it will show up as a Module Fail to Com. trouble.

Connected up to 300m (1000ft) away.

Reader		ACM-12
1: RED	to	(+)
2: BLK	to	(-)
3: GRN	to	(D0)
4: YEL	to	(D1)

Now Has The Ability Of Two

Readers On ONE ACM12! (V. 4.6+)

R915

R910 (not shown) is connected the same way
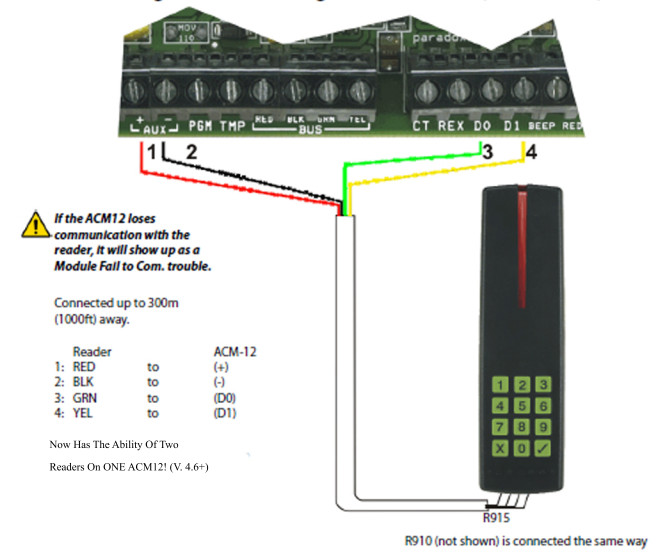
Figure 5: Connecting Access Control Devices

No EOL required on REX

Door Lock

1N4007 Diode

To other devices

Paradoor 460
C NC - +

*** REX device must be connected to REX terminal
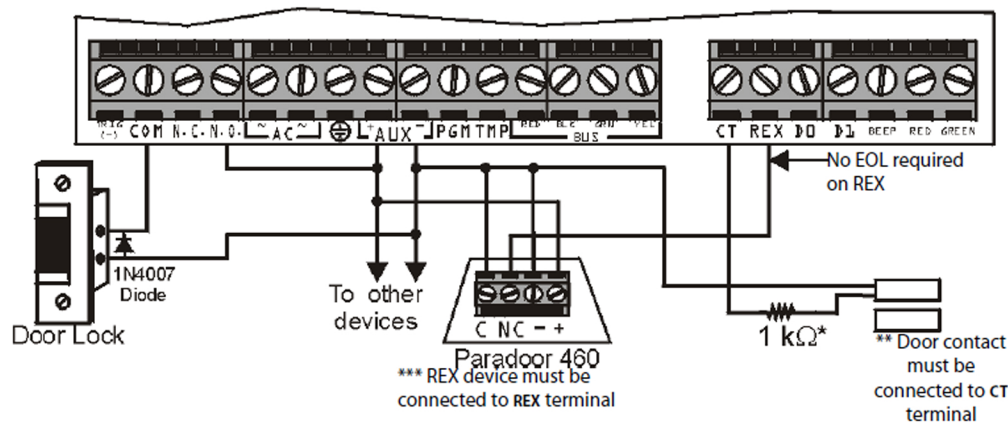
1 kΩ*

** Door contact must be connected to CT terminal

Figure 4: Connecting a 7-Wire Routing Cable

⚠️ If you use a routing cable, use a shielded routing cable. Do not connect the routing cable's shield to the reader's shield. Only connect the routing cable's shield at the ACM12.

Connected up to 152m (500ft) away.

Connect

Reader		ACM-12
1: Red	to	(+)
2: Black	to	(-)
3: Green	to	(D0)
4: White	to	(D1)
5: Brown	to	(Beep)
6: Orange	to	(RED)
7: Yellow	to	(GREEN)

Only connect one reader per ACM12

CR-R880-BL

CR-R885-BL (not shown) is connected the same way