Multiple ways Remote Control
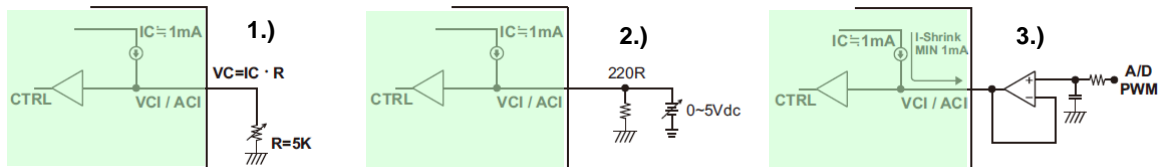# AE , AEK & ME Series

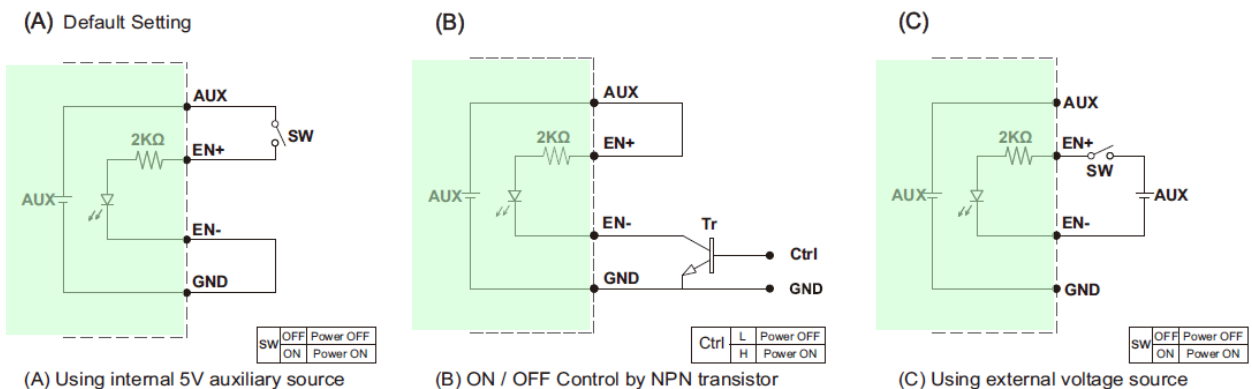Programmable Power Supply, AE, AEK and ME, are able to be remote controlled by following ways,

1. Programmable both output voltage & output current through following ,

1.) External potential meter (Precision Variable Resister, 5 Kohm)
2.) External DC 0 ~ 5V
3.) A/D PWM
4.) RS232, RS485 and I^2C (need an optional Interface card, CT-xxx)
5.) Built-in Potential Meter to fine adjustment output voltage $\pm$ 5%

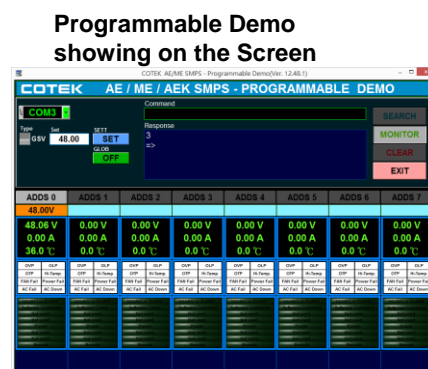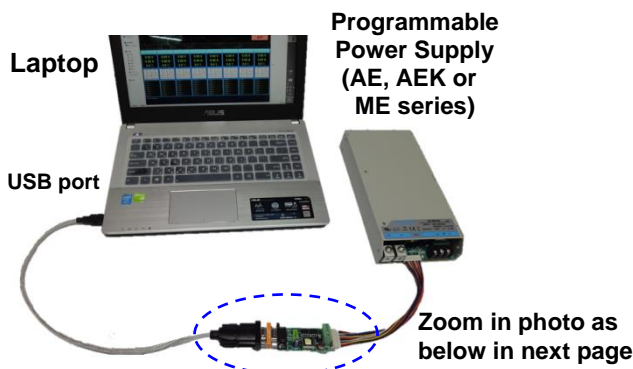## 2. Remote ON/OFF , through following ,

A.) Through internal 5V auxiliary source and external switch.
B.) Through external NPN transistor
C.) Through external voltage source and switch
D.) Through RS232, RS485, I^2C

(A) Using internal 5V auxiliary source
(B) ON / OFF Control by NPN transistor
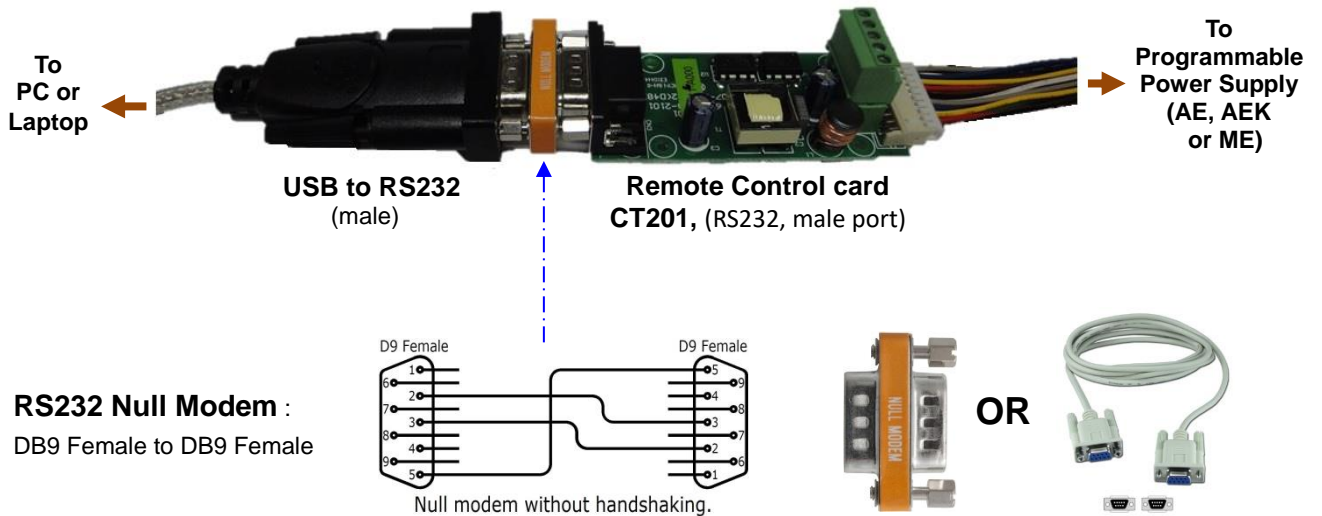(C) Using external voltage source

GND shown in above diagram is referring to the GND of CN2, not the Grounding from main power(NEG-).

3. Remote Control & Monitor by PC or Laptop through RS-232,

Laptop

USB port

Programmable Power Supply (AE, AEK or ME series)

Zoom in photo as below in next page

Programmable Demo showing on the Screen

To remote control SMPS series of AE, AEK or ME by PC or Laptop, we need to prepare following,

1.) CT-xxx , Controller Board, with flat cables   (option)
2.) Null Modem   (Female to Female, as below, option or prepared by buyer)
3.) USB to RS232 Transfer cable , with driver   (option or prepared by buyer)
4.) PC or Laptop   (prepared by buyer)
5.) Communication Protocol   (please contact with COTEK authorized distributor)
6.) Software Program   (Like free AE Demo Program RT, or buyer own develop program)

To
PC or
Laptop

USB to RS232
(male)

Remote Control card
CT201, (RS232, male port)

To
Programmable
Power Supply
(AE, AEK
or ME)

RS232 Null Modem :
DB9 Female to DB9 Female

D9 Female   D9 Female

OR

Null modem without handshaking.

Detail of RS-232 and RS-485 and I^2C , please refer to "Communication Protocol User Manual".

If you want to know how to setup remote control via PC,
please refer to following videos in YouTube,

● 5 easy steps to setup the Hardware :
https://www.youtube.com/watch?v=UEeZd9BB0c0

● 6 easy steps to setup Program RT :
https://www.youtube.com/watch?v=aR2gwgy_jhE

● How to query and turn on the power, as well as setting the output voltage and current :
https://www.youtube.com/watch?v=ffeNM92w-64

● How to query the status of COTEK power supply :
https://www.youtube.com/watch?v=Wjerwxd4kFE

● How to query the device information :
https://www.youtube.com/watch?v=KXrFzYAjvyw