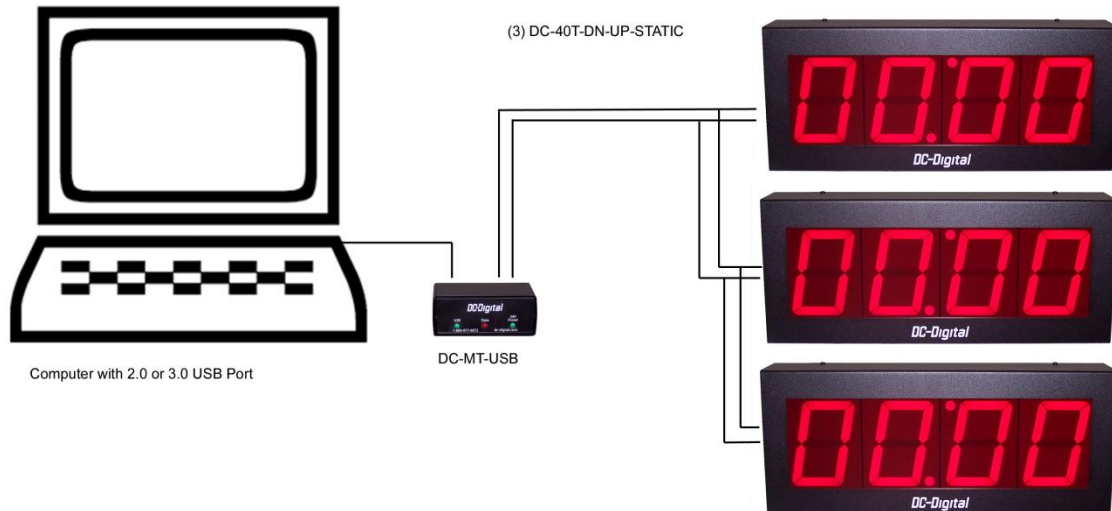# Instructions for operating the DC-MT-USB wired output master data transmitter

Description:

➢ **The DC-MT-USB specifically raises the computer data levels to control up to 100 DC-Digital 4-wire displays. It is a desktop USB input, 2-wire 9600-? baud 8N1 output, low to high level data transmitter.**
➢ Power: It operates off of 24 VDC 1000 mA U.L. listed power supply (included) that requires a 100-240VAC 50/60 hertz outlet.
➢ Time base: Crystal oscillator
➢ Input: USB 9600 or more baud 8N1 at 5 VDC (5 meters max)
➢ Output: 9600 or more baud, 8N1 @ 24VDC average working range is 1000ft. of 22 ga. cabling.
➢ Enclosure: All poly-carbonate flame proof enclosure, 2 inches high x 4.5 inches wide x 3 inches deep.
➢ Mounting: Table top
➢ Weight: less than 1 lb.
➢ Paint: Black textured (finger print resistant) finish.
➢ Connections:
  ▪ (1) USB 2.0 or 3.0 Vista or newer operating system
  ▪ (1) 2.1 mm coaxial jack for 24VDC power supply input
  ▪ (1) 2 pinch type, 22 ga. Wire data out terminal connection
➢ LED's:
  ▪ (1 green) "USB"   Note: Steady
  ▪ (1 red) "Data"   Note: flashes whenever data is transmitted
  ▪ (1 green) "24V Power" Note: Steady

➢ Parts included: DC-MT-USB, Power supply, 1 meter USB cable type A to Type B

(3) DC-40T-DN-UP-STATIC

Computer with 2.0 or 3.0 USB Port

DC-MT-USB

<u>Operation</u>:

See wiring line drawing above;

- ➢ Connect power supply to the DC-MT-USB and observe 24V Power (Green LED) "ON"
- ➢ Connect the USB port cable to the computer and the DC-MT-USB. Windows Vista or newer will automatically recognize and set up the drivers to the DC-MT-USB.
- ➢ Connect the output data cabling to the green 2-wire terminal block on the back of the DC-MT-USB.
  - ▪ Note: Use a small flat blade screwdriver to push into the slot above the wire terminal and then push the 22 ga. cabling into its respective hole. Note: Data + and – polarity must be observed to insure proper display outcome.

- ➢ Test the displays: Send proper data package out of the comm. Port that is associated with the DC-MT-USB. See data protocol associated with the display

- ➢ Recognize that the Red "Data" LED will flash every time data is received from the computer comm. Port.
  - ▪ Note: Do not exceed 100 devices on any one DC-MT-USB (additional units can be accommodated, please notify DC-Digital for specifics)
  - ▪ Note: Typical intelligible data range on 22ga. 2 conductor cabling is 1000 feet

For further questions please contact Industrial Electronic Service D.B.A. DC-Digital @ 937-746-9750 or visit us @ www.dc-digital.com.