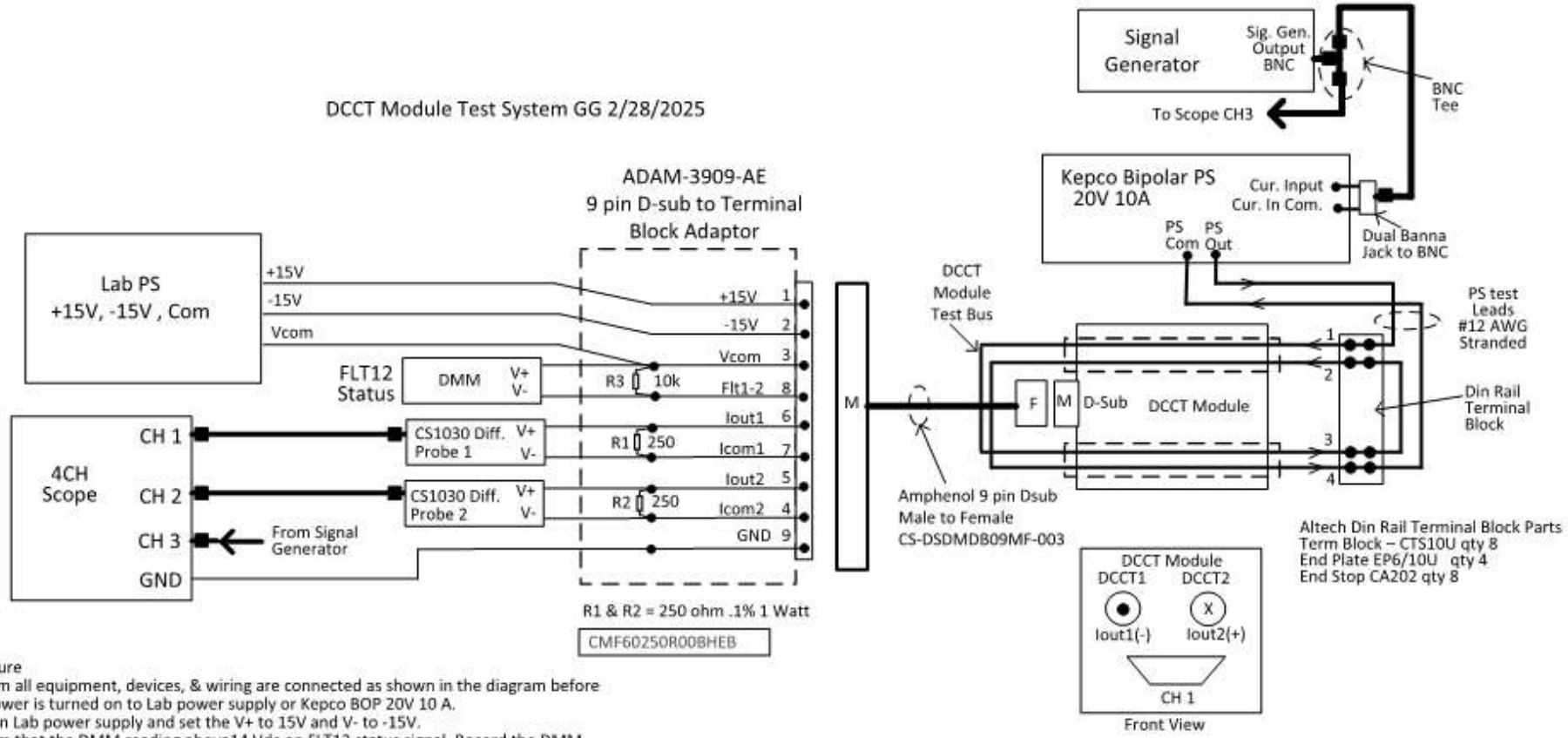
DCCT Module Test System GG 2/28/2025



Test Procedure

- Confirm all equipment, devices, & wiring are connected as shown in the diagram before any power is turned on to Lab power supply or Kepco BOP 20V 10 A.
- Turn on Lab power supply and set the V+ to 15V and V- to -15V.
- Confirm that the DMM reading above14 Vdc on FLT12 status signal. Record the DMM reading in traveler.
- Set the Kepco power supply output + 1 amp DC.
- Lower the -15V on the Lab power supply until the FLT12 status signal on the DMM goes below 1 Vdc. Record DMM reading in traveler. Restore the -15V on the Lab power supply.
- Set the Kepco power supply output - 1 amp DC.
- Lower the -15V on the Lab power supply until the FLT12 status signal on the DMM goes below 1 Vdc. Record DMM reading in traveler. Restore the -15V on the Lab power supply.
- Setup Scope CH 1 & 2 are set to 0.1 V/Div. and 50 msec/Div. for the two probes and CH 3 is set to 10 V/ Div.
- Turn on signal generator and set it up for sin wave with an amplitude of +10 V to -10 V at a 10 Hz frequency. Use the scope CH 3 to confirm the waveform amplitude.
- Turn on the two probes and make sure they are connected as shown in the diagram.
- Turn on the Kepco power supply and confirm the CH1 & CH2 have a sine wave signals. with the CH21 in opposite polarity of CH1 & CH3.
- Take a Snapshot on the scope and transfer data to traveler.
- Record DCCT module serial number on traveler.
- Turn off signal generator and Kepco power supply.
- Finish traveler – make sure all data is recorded.