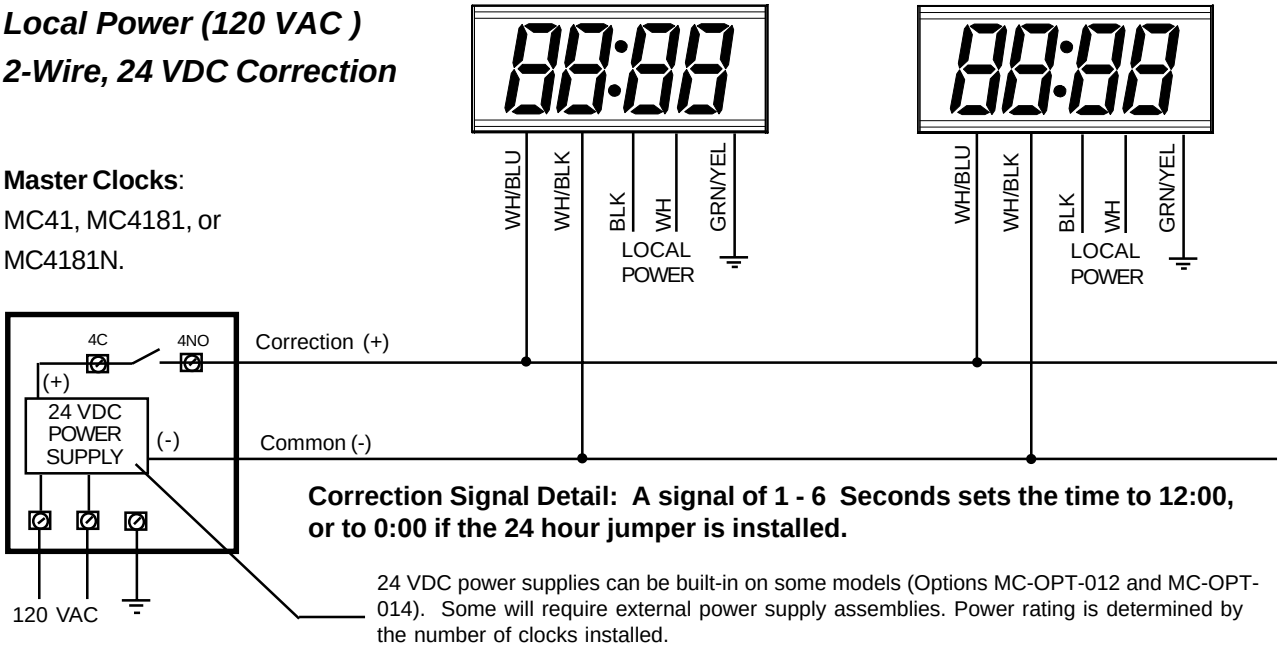
APPLICATION NOTE ANCC-03

CC2000 Series . . . Midnight / Noon Correction

Local Power (120 VAC)
2-Wire, 24 VDC Correction

Master Clocks:
MC41, MC4181, or
MC4181N.



Correction Signal Detail: A signal of 1 - 6 Seconds sets the time to 12:00, or to 0:00 if the 24 hour jumper is installed.

24 VDC power supplies can be built-in on some models (Options MC-OPT-012 and MC-OPT-014). Some will require external power supply assemblies. Power rating is determined by the number of clocks installed.

APPLICATION

The CC2000 Series System Clocks have three different, built-in correction plans to fit virtually all types of clocks systems. For *Midnight/Noon Correction*, use any of the standard CC2000 Series models. These models can be powered by 120 VAC or 24 VAC, 50 or 60 HZ. The correction signal, usually a 24 VDC signal with a duration from 1 to 6 seconds, is applied to the isolated correction input. Using a master clock, apply this signal at Midnight and Noon, or at Midnight only for 24 Hour formatted clocks. To program this on any of the MC Series Master Clocks, include an everyday program step at Noon and/or Midnight to turn on relay 4 for 1 to 6 seconds.

MC Series example

Sets the Pulse to 5 Seconds	Turns ON Relay 4 at Midnight	Turns ON Relay 4 at Noon
Pulse = 5 Seconds Relays: - - - 4	00 EDY 12:00 A Relays: - - - 4	01 EDY 12:00 P Relays: - - - 4

WIRING

For this example connect 120 VAC power to the Black, White and Green/Yel wires of each clock, locally. Connect the WH/BLU wire to the Correction line (+), and the WH/BLK wire to Common (-). Wire size and rating is determined by the number of clocks installed, the distances to the clocks, and the voltage rating. See the power requirements below. *Be sure to follow all local wiring codes.*

Power:	CC2001 and CC2001F	120VAC, 6VA Max, 50/60 Hz (Internal Jumper for 50 HZ)
	CC2001W2 and CC2001C2	120VAC, 8VA Max, 50/60 Hz (Internal Jumper for 50 HZ)
Sync Signal:	All models	12 V AC/DC to 120 V AC/DC, 5 mA maximum (isolated)
Backup:	All models	Capacitive - approx 1 hour
Set Switches:	Increment Hours and Minutes, access from back panel or from inside (CC2001and CC2001F only)	

APPLIED TECHNICAL SYSTEMS

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