

# APPLICATION NOTE

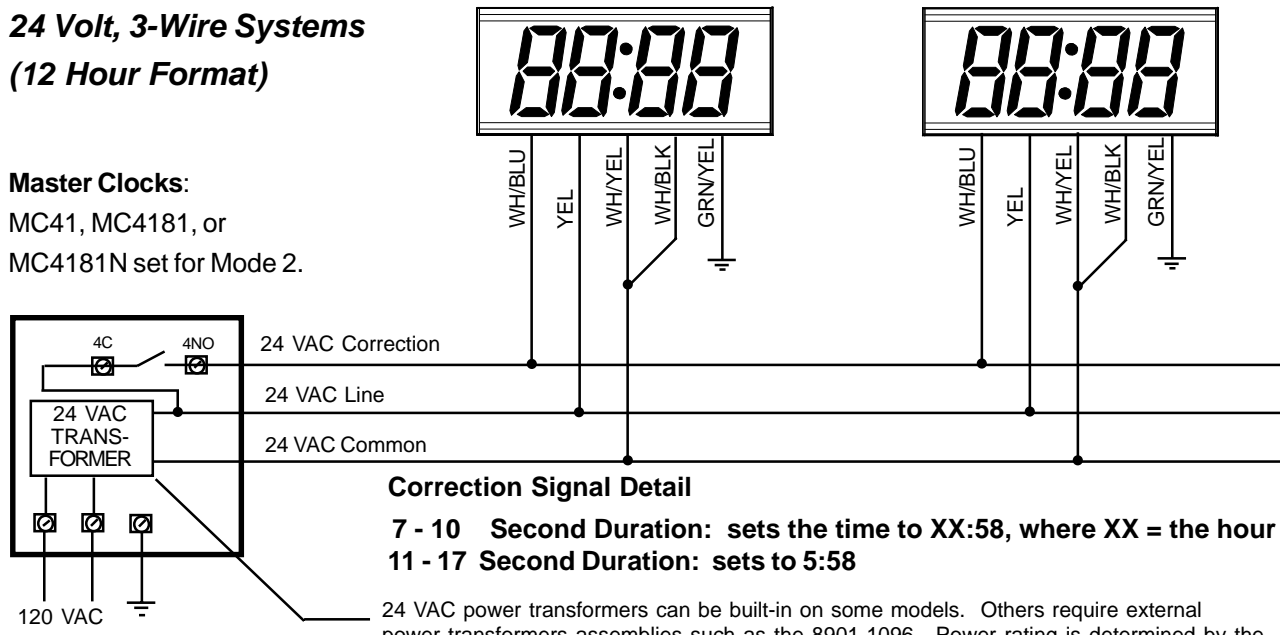
ANCC-02

## CC2000 Series . . . 59th Minute Correction

**24 Volt, 3-Wire Systems  
(12 Hour Format)**

**Master Clocks:**

MC41, MC4181, or  
MC4181N set for Mode 2.



**Correction Signal Detail**

**7 - 10 Second Duration:** sets the time to XX:58, where XX = the hour  
**11 - 17 Second Duration:** sets to 5:58

24 VAC power transformers can be built-in on some models. Others require external power transformers assemblies such as the 8901-1096. 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 *59th Minute, 3-Wire, 24 VAC systems*, use the CC2002, CC2002W2, CC2002C2 and/or CC2002F models. These models are powered by 24 VAC, 50 or 60 HZ. The 24 VAC correction signal is applied to the isolated correction input (same as the correction coil on an analog clock). CC2000 Series System Clocks can be used to replace or add to existing 24 VAC, 3-wire analog clock systems using the same three wires already in place. See the CC2000 Series brochure for more details.

**WIRING**

The YEL wire is connected to the 24 VAC LINE and the WH/YEL wire is connected to the 24 VAC COMMON. A GRN/YEL wire for earth ground is provided on some models. The WH/BLU and WH/BLK wires provide the isolated correction input. Connect the WH/BLU wire to the 24 VAC correction line, and the WH/BLK wire to 24 VAC COMMON. Wire size and rating is determined by the number of clocks installed, the distances to the clocks, and the voltage rating. *Be sure to follow all local wiring codes.*

Power:	CC2002 and CC2002F	24VAC, 6VA Max, 50/60 Hz (Internal Jumper for 50 HZ)
	CC2002W2 and CC2002C2	24VAC, 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 (CC2002 and CC2002F only)	



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