

Quick Setup Instructions

ADC-5100 Clock Series

Please refer to your *5000/5100 Series of Digital Analog Clocks Installation and Operation Manual, Edition D* for more detailed information.

Pre-Setup Inspection and Verification

1. Inspect the ADC-5100 product for missing parts and for transit damage immediately after unpacking. If possible, retain the original packing materials for re-use in the event of further shipment of the equipment.
2. Verify that the AC line voltage for your installation matches the voltage printed on the chart on the rear of the ADC.
3. Verify that the operating configuration indicated on the back of the clock (Slave or Master) is correct for your installation. If there is no indication, the unit is configured for Slave operation.
4. Verify that the clock hands are within 5 seconds of 12:00:00. If they are not, contact your Leitch representative.

Setup

DIP Switch Configuration

Use a pointed object to press and adjust the various DIP switches as required.

1. DIP Switch 6 **must** be in the **TIMECODE** position.
2. DIP Switch 5 selects the Time Code output format when the ADC is configured as Master. Select between **SMPTE** (non-drop frame) or **EBU**.
3. DIP Switch 4 selects the secondary reference used by the ADC when Time Code input fails. Select from **INTERNAL** (uses an internal crystal oscillator), or **LINE** (uses an AC power line). The AC power line frequency (50 or 60 Hz) is automatically detected on power-up.
4. DIP Switch 3 selects between **NORMAL** and **USE AUX. OFFSET**. Select **USE AUX. OFFSET** to activate the use of a programmable Time Code User Bit offset in the input Time Code generated by a MTG-3901, CSD-3901/3901, or CSD-5300 Master Clock System Driver, if available.

5. DIP Switch 2 selects between **NORMAL** and **RUN ON SECONDARY**. If no input Time Code is provided, the error LED will flash twice per second. Select **RUN ON SECONDARY** to disable the flashing LED.
6. DIP Switch 1 selects the type of Second Hand operation. Select from **STEP SECONDS** (single step movement) or **SWEEP SECONDS** (continuous sweep movement).

Operation Notes

Time Code Operation

Connect the Time Code leads to the rear panel connectors. The clock will begin to self-set (this process may take up to 15 minutes to complete).

Local Offset Programming

Refer to the *5000/5100 Series of Digital Analog Clocks Installation and Operation Manual, Edition D*.

Setting Time for Master or Stand-Alone Operation

1. Press the **MANUAL SET** button to enter/exit the Manual Set mode. The error LED is illuminated while in Manual Set mode.
2. Press the **CW** button to move the hands forward (clockwise) by one second. Press and hold the **CW** button to move the hands forward rapidly. Release and press the **CW** button again to stop the forward movement.
3. Press the **CCW** button to move the hands backward (counter-clockwise) by 60 seconds. Press and hold the **CCW** button to move the hands backward rapidly. Release and press the **CCW** button again to stop the backward movement.
4. Once the desired time is set, press and hold the **MANUAL SET** button until the LED flashes, then release it at the proper instant for synchronization with the real time of day.

Removing Offset Times

1. Disconnect Time Code.
2. Press and hold the **MANUAL SET** button until the hands come to a complete stop and the error LED illuminates.
3. Use the **CW** and/or **CCW** buttons to move the hands to the top of any hour, for example 3:00 (see the *Setting Time for Master or Stand-Alone Operation* summary above for details on **CW** and **CCW** button use).
4. Press and hold the **MANUAL SET** button; the error LED will begin to flash.
5. Continue to hold the **MANUAL SET** button, and press and hold the **CCW** button; the error LED will extinguish.
6. Continue to hold the **MANUAL SET** and **CCW** buttons, and press and release the **CW** button once for every hour indicated by the current hand position. (For example, if the hands have been moved to indicate 3:00, the **CW** button must be pressed three times). The error LED will flash once for each time the **CW** button is pressed.

7. Release the **CCW** button first, and then release the **MANUAL SET** button.
8. Re-connect Time Code, and the clock hands will automatically reset to the correct time.

Second Hand Tracking

If the second hand is not falling on the second marks, follow these steps to correct the problem:

1. Adjust DIP Switch 1 to a closed position to place the clock hands in Step Mode.
2. Press and hold the **CW** button, followed by the **MANUAL SET** button, to advance the second hand slightly. For every second that the buttons are held, the hands will move three extra motor points forward. There are 150 motor points per second; therefore a one second error would require that the buttons be held for 50 seconds.



Note

Press the **CW** button first (before the **MANUAL SET** button), and release it last to avoid entering the Manual Set Mode accidentally.

3. Press and hold the **CCW** button, followed by the **MANUAL SET** button, to move the second hand counter-clockwise. For every second that the buttons are held, the hands will move three extra motor points backward. There are 150 motor points per second; therefore a one second error would require that the buttons be held for 50 seconds.



Note

Press the **CCW** button first (before the **MANUAL SET** button), and release it last to avoid entering the Manual Set Mode.