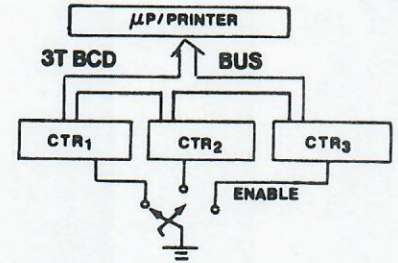


With Preset and Limit



FEATURES

- 59:59.99 (60 Minute) 807
- 99:59:59 (100 Hour) 809
- 6 Digit 1/2" (13mm) Display
- Latchable Preset
- Latchable Limit
- Latchable Overflow
- 3T BCD, TTL or CMOS
- Schmitt Trigger/Debouncer
- Relay Outputs
- Splash Proof Cover
- 1/4" DIN Aluminum Case



DESCRIPTION

The 807 and 809 combine the Main Frame of the 800, the time base of the 805, special format display and a custom masking on the main LSI Chip. The flexibility of the 800 Main Frame and the accuracy of the 805 time base are used to build a reliable process clock controller. Please refer to the Model 800 on pages 1 to 3 for detailed information. The Counter Preset Switches give added flexibility to the 807 and 809 for fast time setting. The Limit Switches, as the Counter Preset, give a constant visual indication of the two major parameters on a clock.

Automatic Start, Stop, Slow Down, Reverse, Reset is easily accomplished by means of external jumpers on rear edge connector. Logic, Relays and "3T" BCD Output interface the 807 and 809 to the real world for controlling purposes.

CONNECTIONS

The same basic connections described on the 800 (see pages 1 to 3) apply to the 807 and 809 except that five internal time bases are generated. Depending on the model used, external connection to the counter input (18A) must be made from either 16B (1Hz) for Model 807 or from 17B (100 Hz) for Model 809 or from any external source CMOS compatible. Of course, the 807 and 809 can be used as down clocks by simply grounding Pin 19A (Up/Down).

SPECIFICATIONS

- Input Frequencydc to .5MHz
- Input Level CMOS Logic < 3V, Logic "1" => >6V_I
- Count Pulse Width400µs Min.
- Hold Pulse Width3µs Min.
- Reset Pulse Width3µs Min.
- Up/Down Setup Time1µs Min.
- Limit & Preset Load Time500µs Minimum
- Inputs Source Current250µA Nominal
- Equal Pulse Width5µs Min.
- Zero Pulse Width5µs Min.
- Carry Pulse Width5µs Min.
- Power Requirements12Vdc ± 10% @ 150mA
- Operating Temperature0 to +60 °C
- Storage Temperature-20 to +80 °C
- Time Base 100 KHz Crystal Oscillator
- Time Base Accuracy± 0.005%
- Time Base Stability± 0.001%/°C

INPUT DEBOUNCER

- Input Source Current750µA
- Input Capacitance5pF
- Input-Output Delay4 Clock Pulses after Last Bounce
- Clock Frequency Vs Cx (internal)..... f=A/Cx.
- A = 1/3 Vcc. Cx in pF, Ex 50000 pF = 40 mS Delay

LATCHED OUTPUTS

- Output Logic Level "0" < 3V; "1" > 6V
- Propagation Delay1µs
- Latch Reset Pulse> 1µs
- Latch Reset Source current250µA

POWER SUPPLY

- Input115/230 VAC ± 15% 50-60 Hz
- Output12Vdc ± 10% @ 200mA

RELAYS/TRIACS

- Make Time3.0mS/.1mS
- Break Time1.0mS/.1mS
- Maximum Load1A Resistive

TRISTATE BCD

- Output (CMOS)CMOS Compatible
- Output (TTL)LPTTL 10 Loads
- Output Format8 Bit (2 Digits) or 24 Bit (6 Digits)
- Input DisableAll Six Digits (memory)
- Output Disable3, Grouped in 2 Digits



ORDERING INFORMATION

MODEL XXX X X X

MODEL FORMAT
807 (59:59.99 Minutes)
809 (99:59:59 Hours)

BCD
0 No BCD
1 TTL BCD
1 CMOS BCD

0 Standard

POWER SUPPLY/RELAYS
0 No. Power Supply (12 Vdc only)
1 12 Vdc and Relays
2 A.C. Power Only (115/230 Vac)
3 A.C. Power and Relays
4 12 Vdc and Triacs
5 A.C. Power and Triacs
X Special (Specify)