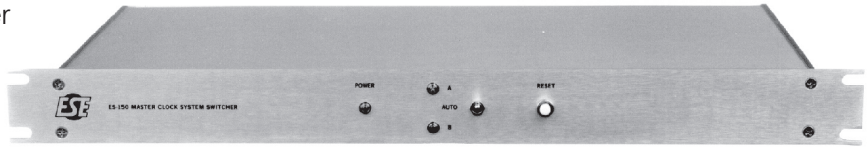
MASTER CLOCK
SYSTEM SWITCHER

The **ES-150** is an Automatic Time Code Switchover unit. It is designed to provide a simple/automatic method for switching between a Primary Master Clock and a Secondary Master Clock. The unit receives ***ESE*** time code from two different sources (A & B) and if a fault is detected from the Primary Clock (A), the **ES-150** automatically switches to the Back-Up Clock (B). Once a fault is detected, the unit remains in the "B" state until manually reset. Front panel mounted LEDs indicate status and a toggle switch allows manual switching between A and B.

Features:

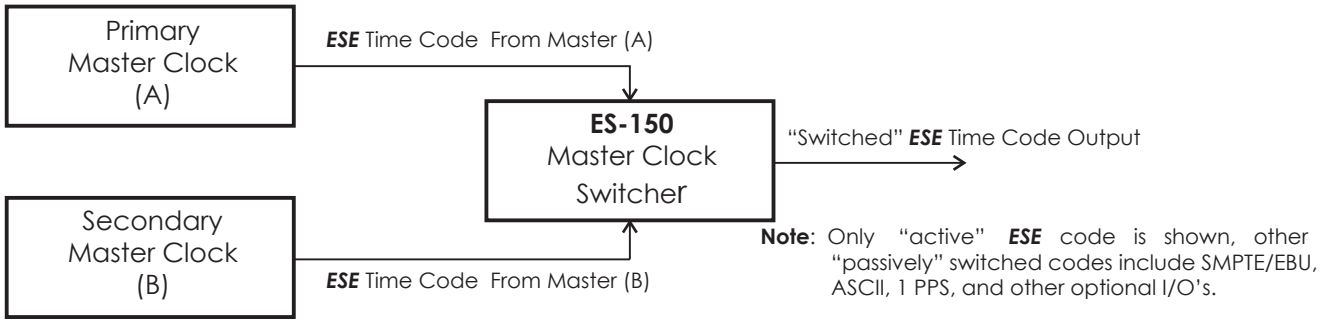
- Up To Four Additional (optional) Input/Output Circuit Switchovers
- Five Standard Input/Output Circuit Switchovers
- Automatic Time Code Switchover
- Simple Installation & Operation
- Rack Mount Enclosure
- LED Status Indicators



The unit also provides passive switchover inputs (A & B) and outputs for SMPTE/EBU time code, ASCII, a 1 PPS signal and an inverted 1 PPS signal. The status of these outputs is controlled by the same circuitry as the ***ESE*** time code and will therefore switch from A to B whenever the ***ESE*** time code is switched.

Optionally, the **ES-150** can be specified to include passive I/O circuitry for switching many other signals that are common in a Master Clock System. These include IRIG-B time code, 1 KHz, 10 MHz and a 12 or 24 VDC Alternating I/O (Analog Clock signal of the ES-162A and Favag Systems). Also optionally available is a Parallel BCD output derived from the ***ESE*** time code.

Simplified Master/Switcher Arrangement



Specifications

Active I/O Circuits: ***ESE*** Time Code
Passive I/O Circuits: SMPTE/EBU, ASCII, 1 PPS, $\overline{1\ PPS}$
Electrical: 117 VAC, 50/60 Hz
Power: 2 Watts
Mechanical: 1.75" x 19" Rack Mount, 10" Deep
Optional I/O Circuits: IRIG-B, 1 KHz, 10 MHz, 12/24 VDC Alternating
Options: B, Black, J, UL, I/O Sets (Additional I/O Passively Switched Circuits)

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