



142 SIERRA ST., EL SEGUNDO, CALIFORNIA 90245 (310) 322-2136

ES-168

Operation and Maintenance Manual

The ES-168 is an analog impulse clock designed to be driven from an ES-165 impulse driver. It accepts, over a single pair of wires, an 8 Hz, 3 Vpp signal from the ES-165. The terminal block on the clock movement case is used for this purpose. When more than one clock is used, they are connected in parallel, usually by daisy-chaining. The ES-168 impulse clocks can be set as follows: turn the impulse driver output "On". Each ES-168 has its own individual on/off switch. Individually switch each clock "Off" when its second hand is at 15 seconds past the minute. This starting position assures more reliable motor startup. After all clocks are set, turn off the impulse driver output, then individually turn on each ES-168. Now, when real time reaches 15 seconds past the minute, the impulse driver output can be turned "On", starting all clocks in unison. The minutes and hours on each ES-168 are set with the knob on the rear of the clock movement.

QTY	DESIGNATION	DESCRIPTION	PART NUMBER
1		ANALOG CLOCK MOVEMENT	168 MOVEMENT
1	S1	SWITCH	SPDT TOGGLE
1	TB1	TERMINAL BLOCK	2-140-Y
1		HAND NUT	J101G
1		CLOCK HOUSING	ES-168

IF COMPONENT REMOVAL IS REQUIRED, WE RECOMMEND REMOVING ALL SOLDER USING A 35W OR SMALLER SOLDERING IRON AND 'SOLDER WICK' TO PREVENT DAMAGE TO THE PRINTED CIRCUIT BOARD.

ALL INFORMATION CONTAINED IN THIS MANUAL IS SUBJECT TO CHANGE WITHOUT NOTICE.