



Series 019

All transistors and resistors are 1/4W

All Resistors are 1% tolerance

Photo resistive is Minicard MK15-1000E 75K at 10lux

Reed switch is GE, De-Geno Model 17800111001

Circuit description: The circuit is a clock divider. It is first shaped and then enters the 7490 to be divided.

by 3600 to get one pulse per minute. This signal then goes into the 7492 (+5, +2)

The outputs of the 7490 are divided by the 7490, 7492, and 7492. The 7492 is a self-explaining.

60 Hz & 1 Hz signals to go directly into the 7490. The other dividers are self-explaining.

The most typical failure is caused by the switches failing to register this clock when

the circuit is powered. The transition divider 1200 Hz lamps is all that fails when this happens.