

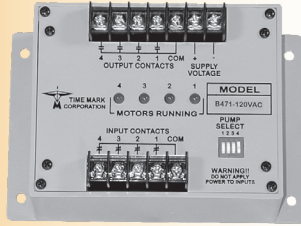
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### Multi-Stage Alternating Relays (Continued)

#### MODEL 471 MULTI-STAGE ALTERNATOR



The Model 471 Multi-Stage Alternator is designed to control the operating sequence of multi-stage pumping systems. It can also be used to maintain the

desired level of pressure-on air compressor systems. Four PUMP SELECT DIP switches located on the front panel allow the alternator to control a single-pump, two-pump, three-pump or four-pump system. Only one switch needs to be set for the total number of pumps in the system.

The Model 471 will assure that only the necessary pumps are operating, and that the run time for each pump is approximately equal. Pumps are sequenced "first-on, first-off". If the pumping demand requires only one pump at a time, the alternator will start the next pump in sequence each time an input switch is closed. Input switches may be float switches, pressure switches, flow switches, etc., as required by the application.



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## ALTERNATING RELAYS FROM TIME MARK



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# PROTECTING YOUR EQUIPMENT



## Duplex Alternating Relays

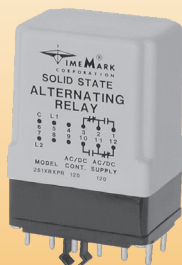
### MODEL 261 SERIES ALTERNATING RELAYS



The Model 261 series Alternating Relay is designed for duplex pumping systems where it is desirable to equalize pump run time. The solid state alternating circuit drives an internal electromechanical relay. A continuous power source and control switch are required.

The control switch (float, pressure or other isolated contact) is connected between the L1 terminal and the control terminal. Each time the control switch is opened the output contacts will change states. Indicator lights on the case show the internal relay status.

On the optional toggle switch versions, the toggle switch is set to the NORMAL position. Setting the switch to Load 1 or Load 2 will lock the relay in position, preventing alternation.



### MODEL 261XBPX ALTERNATING RELAYS

The Model 261XBPX(R) Alternating Relays use the same solid-state latching and control circuit as all the other 261 series

models, the enclosure and the connecting base being the major differences.

This version was designed to replace a long time and widely used mechanical latching relay offered by another manufacturer.

### MODEL 2611 ALTERNATING CONTROLLER

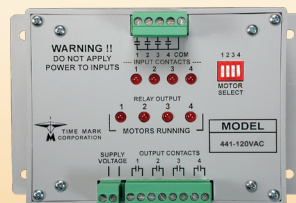
The Model 2611 Alternating Controller is a microprocessor based controller designed for use where two loads are required to alternate to provide equal run time on the loads. LED indicators show the status of the unit's

three control switch inputs and 2 load outputs. A lead select switch allows the loads to alternate normally in the center position, or disable automatic sequencing and lock in a 1-2 or 2-1 sequence.

When a Stop, Lead or Lag switch closes, the corresponding LED on top of the unit will illuminate.



### Multi-Stage Alternating Relays

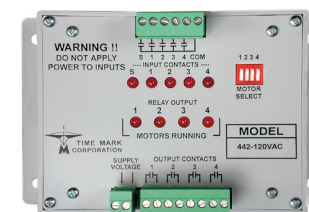


### MODEL 441 MULTI-STAGE ALTERNATOR

The Model 441 Multi-Stage Alternator is designed to control the operating sequence of multi-stage motor/pumping systems. It can also be used to maintain the desired level of pressure-on air compressor systems. Four motor select DIP switches located on the front panel allow the alternator to control a single-motor/pump, two-motor/pump, three-motor/pump or four-motor/pump system.

The Model 441 will assure that only the necessary

motors/pumps are operating, and that the run time for each motor/pump is approximately equal. Motors are sequenced "first-on, first-off". If the motor/pumping demand requires only one motor/pump at a time, the alternator will start the next motor/pump in sequence each time an input switch is closed. Input switches may be float switches, pressure switches, flow switches, etc., as required by the application.



### MODEL 442 MULTI-STAGE ALTERNATOR

The Model 442 Multi-Stage Alternator is designed to control the operating sequence of multi-stage motor/pumping systems. It can also be used to maintain the desired level of pressure-on air compressor systems. Four motor select DIP switches located on the front panel allow the alternator to control a single-motor/pump, two-motor/pump, three-motor/pump or four-motor/pump system.

The Model 442 will assure that only the necessary motors/pumps are operating, and that the run time for each motor/pump is approximately equal. Motors are sequenced "Sequence-On, Simultaneous-Off". If the motor/pumping demand requires only one motor/pump at a time, the alternator will start the next motor/pump in sequence each time an input switch is closed. Input switches may be float switches, pressure switches, flow switches, etc., as required by the application.

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