

Solid State Timers and Controllers

438USAS

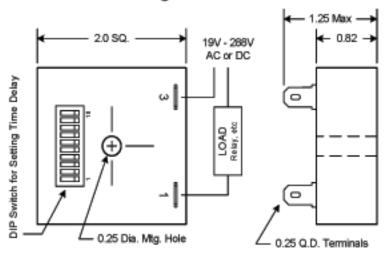
Universal Switch Adjustable Time Capsule **

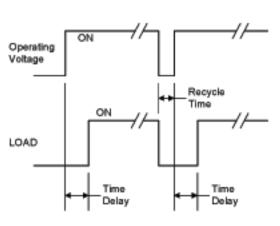


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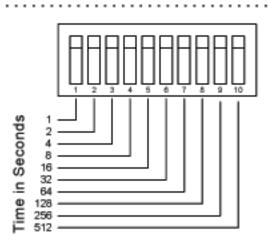
The Model 438USAS is the 2'x2" version of the most popular of all Artisan Controls Corporation Time Capsule ® devices. By merely connecting the two terminals in series with any load circuit drawing between ten milliamperes and one ampere operating from any voltage between 19 volts and 288 volts AC or DC, the 438USAS turns that load circuit into a delay on make timing circuit. Set the 10 DIP switches to the required delay, and apply operating voltage. When the operating voltage is applied, a small amount of current will flow through the load and the timer (leakage current). At the end of the delay period, the model 438USAS turns ON and full load current is permitted to flow

Mechanical & Wiring Timing Diagram





The DIP switches are uses to set the time delay period between 1 and 1024 seconds. The timer has an internal 1 second delay, activating the DIP switches add their corresponding value to that internal delay. The switches to the right are all activated for a total delay of 1023 seconds, adding that to the internal 1 second provides the full 1024 seconds. The DIP switches in the above diagram are all de-activated, this will configuration will yield the minimim time delay of 1 second. Any time delay from 1 to 1024 seconds can be achieved by opening the appropriate switches



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Operating Voltage: 19 to 288 Volts AC 50/60 Hz or DC.

Timing Mode: Delay-On-Make, External load energizes after preset timing period as

set by the 10 DIP switches.

Timing Range: Digital timing is DIP switch programmable from 1 to 1024 seconds.

Timing Adjustment: From 1 second (All Closed) to 1024 seconds (All Open) in 1 second

increments.

Programmable Timing Tolerance: ±10%

Timing Variation: ±15% worst case at any combination of operating voltage and

temperature.

Repeatability Of Timing Period: ±1% nominal.

Recycle Time: 50 milliseconds if output is ON, 200 milliseconds during a timing cycle

while output is OFF.

Output Rating: 10 milliamperes to 1 ampere inductive with inrush current to 25

amperes for 8 milliseconds.

Output Voltage Drop in "ON" State: 4 volts maximum.

Leakage Current in "OFF" State: 0.6 mA @ 24V, 1.8 mA @48V, 5.4 mA @120V, 11.4 mA @ 240V.

Transient Protection: Maximum transient voltage protection is 6000 volts as delivered

through a source resistance of 30 ohms with a maximum duration of

8.3 milliseconds.

Operating Temperature: -20°C to +85°C

Humidity: 95% condensing

Terminations: Two (2) .25 Faston type.

Agency Recognition: UL File E47858, Appliance Controls - Component ATNZ2 (US) &

ATNZ8 (Can), Auxiliary Devices - Component NKCR2 (US) &

NKCR8 (Can).

Data Sheet Revision Date: February 3, 2006

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