Altech Universal Digital Multi-Timer

Altech's AMT-Series of Universal Digital Multi-Timers comprises 4 models featuring 8 or 18 timer functions to offer highest flexibility in controlling operations. The time range is adjustable from 0.1s to 999h. An LCD display shows current Run time information.





Features

- Multifunctional Timer (8 or 18 Functions)
- Universal Voltage 24~265 VAC/ DC
- Wide Time Range: 0.1s ~ 999h
- 3 Digit LCD Display for PresetTime and RunTime
- DIN Rail Mounted
- 17.5mm Width







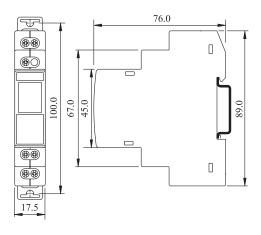
Digital Timers

Cat. No.	AMT8-S1	AMT8-D2	AMT12-S1	AMT12-D2
Output Contacts	1 C/O	2 NO	1 C/O	2 NO
Functions	8	8	18	18
	1) ON Delay		1) ON Delay	
	2) Cyclic OFF/ ON 3) Cyclic ON/ OFF 4) Signal ON/ OFF 5) Signal OFF Delay 6) Interval 7) Signal OFF/ ON		2) Cyclic OFF/ ON	
			3) Cyclic ON/ OFF	
			4) Impulse on Energizing	
			5) Accumulative Delay on Signal	
			6) Accumulative Delay on Inverted Signal	
			7) Accumulative Impulse on Signal	
	8) One Shot Output		8) Signal ON Delay	
			9) Inverted Signal ON Delay	
			10) Signal OFF Delay	
			11) Impulse ON/ OFF	
			12) Signal OFF/ ON	
			13) Leading Edge Impulse 1	
			14) Leading Edge Impulse 2	
			15) Trailing Ed	dge Impulse 1
			16) Trailing Ed	<u> </u>
			17) Delayed Impulse	
			18) Inverted Sig	nal ON Delay 2

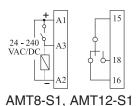
Specifications

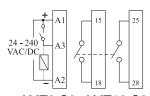
•				
Supply Voltage	24 - 265 VAC/ DC (50, 60Hz)			
Power Consumption	10 VA max.			
Timing Range	0.1s ~ 999h			
Reset Time	200ms max.			
Repeat Accuracy	+-0.5%			
Output Contact Rating	8A @ 240 VAC/ 24 VDC (resistive)			
Electrical Life	10,000 switching cycles			
Mechanical Life	2,000,000 switching cycles			
AC-15 Rating	Rated Voltage (Ue): 125/240V, Rated Current (Ie): 3/1.5A			
DC-13 Rating	Rated Voltage (Ue): 125/ 250V, Rated Current (Ie): 2/0.22/0.1A			
Operating Temperature	-10°C ~ +55°C (+14°F ~ 131°F)			
Storage Temperature	-20°C ~ +65°C (-4°F ~ 149°F)			
Weight	85g (0.14lb.)			
Protection Enclosure	IP30			
Protection Terminals	IP20			
Torque	0.40 Nm (3.5 lb.in.)			
Terminal Wire Size	0.3-2.5 mm ² (22-14 AWG)			

Dimensions



Connection Diagrams



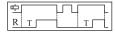


AMT8-S2, AMT12-S2



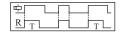
Functional Diagrams for AMT12-S1 and AMT12-D2





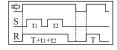
On application of supply voltage, the preset delay time period starts. On completion of the preset time, the output is switched ON and remains ON till the supply voltage is present

IMPULSE ON **ENERGIZING [3]**



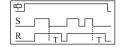
On application of supply voltage, the output is instantly switched ON for the preset time duration (T) after which it is switched OFF.

ACCUMULATIVE IMPULSE ON SIGNAL [6]



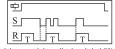
When supply is ON, R energizes. When switch S is closed timing is suspended and remains suspended till switch S is opened again. Interrupting supply resets timer.

SIGNAL OFF DELAY [9]



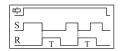
On application of supply voltage and input signal, the output is switched ON. When the signal is removed the preset time duration commences & the output is switched OFF at the end of the time duration.

LEADING EDGE IMPULSE1 [C]



On application of input signal the output is immediately switched ON. The output remains ON for the preset time duration (T) after which it is switched OFF. If the input signal is removed during the preset time, the output remains unaffected.

TRAILING EDGE IMPULSE2 IFI



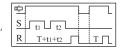
When the input signal to the timer is removed, the output is immediatel switched ON for the preset time duration (T) after which it is switched OFF. If the input signal is applied during the preset time, the output remains unaffected.

CYCLIC OFF/ON {OFF Start. (Sym, Asym)} [1]



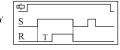
On application of supply voltage, the output is initially switched OFF for the preset 'OFF' time duration (TOFF) after which it is switched ON for the preset 'ON' time duration (TON). This cycle repeats and continues till the supply is present.

ACCUMULATIVE DELAY ON SIGNAL



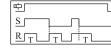
On application of supply voltage, the preset timing duration commences. When input signal is applied the timing pauses and resumes only when the input signals removed. The output is switched ON at the end of the preset time duration (T).

SIGNAL ON DELAY



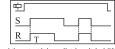
On application of input signal, the preset delay time period starts. On completion of the preset time, the output is switched ON and remains ON till the input signal is present

IMPULSE ON/OFF [A]



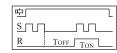
On application or removal of input signal, the output is switched ON & the preset time duration (T) commences. On completion of the time duration the output is switched OFF. When timing commences, changing the state of the input signal resets the time.

LEADING EDGE IMPULSE2 [d]



On application of input signal the output is immediately switched ON The output remains ON for the preset time duration (T) after which it is switched OFF. If the input signal is removed during the preset time the output is immediately switched OFF.

DELAYED IMPULSE [G]



when switch S is closed, TOFF starts, Relay energizes at the end of TOFF period. Then, TON starts irrespective of signal level and relay de-energizes at the end of TON period.

CYCLIC ON/OFF {ON start.

(Sym, Asym)} [2]



On application of supply voltage, the output is instantly switched ON for the preset time duration (ToN) after which it is switched OFF for the preset 'OFF' time duration (TOFF). This cycle repeats and continues

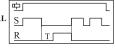
ACCUMULATIVE DELAY ON INVERTED SIGNAL





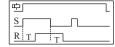
On application of supply voltage and input signal, the preset timing duration commences. When the signal is removed the timing pauses and resumes when the signal is applied. The output is switched ON at the end of the preset time duration (T).

INVERTED SIGNAL ON DELAY [8]



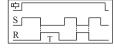
On application of supply voltage, the preset delay time period starts. When input signal is applied, the timing pauses & resumes only when the signal is removed. On completion of the preset time, the output is switched ON.

SIGNAL OFF/ON [b]



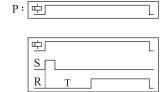
On application of input signal, the preset delay time period (T) starts. On completion of the preset time, the output is switched ON. On removal of input signal, the preset time period starts again and the output is switched ON when the preset time duration is complete.

TRAILING EDGE IMPULSE1 [E]



When the input signal to the timer is removed, the output is immediately of the input signal is an enter is removed, all output is immediate switched ON for the preset time duration (T) after which it is switched OFF. If the input signal is applied during the preset time, the output is immediately switched OFF

Functional Diagrams for AMT8-S1 and AMT8-D2



ON DELAY (A)

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R



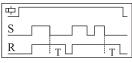
SIGNAL OFF DELAY(E)



CYCLIC OFF/ON {OFF Start, (Sym, Asym)}(b)



CYCLIC ON/OFF {ON Start, (Sym, Asym)}(C)



SIGNAL ON/OFF(d)







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ONE SHOT OUTPUT (H)

1. For Power-On operation (P) connect the terminal B1 to A1 permanently. Note:

INTERVAL(F)

2. If the Signal (S) changes during the Timer Duration (T), it does not change the output relay but re-triggering takes places and the Timer Duration is extended.