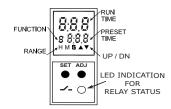
FEATURES:

- 8 functions
- Wide operating voltage: 24 to 240 VAC / DC
- Multi Range: 0.1 s to 999 h
- Up/Down counting modes
- 3Digit LCD for preset Timer and Run Time
- Clear LED indication of Relay status
- Key lock Function
- Conforms to IEC standards of EMI/EMC
- Compact size (17.5 mm single width module)



- 1.PRESET TIME: The Timer Duration selected by the
- 2. RUN TIME: In Down counting (▼) mode it indicates the remaining while in Up counting (A) mode tindicates the elapsed time.
- 3.Up/Down (▲▼) blinks during the .Timer Duration(T)

THE KEYS:

KEY OPERATION RESULT

€ SET

Apply Power & Hold Program Mode the key for >3 sec.

OR

Press both >3 sec program after power on



Press in program mode



Press in program mode Edit blinking parameter'



Press for>3 sec. During Timer operation Reset Timer



Press for>3 sec. during Timer operation Select, Edit parameter Lock/Unlock Preset Time



Press during timer operation Edit Preset Time during Timer operation

Programming Instructions:

Apply power & hold the SET key for >3 sec.OR press both ADJ & SET key for >3 sec.After power ON.Now follow the steps given below



DISPLAY



нм 🔻

Press ADJ Key to select desired function (e.g F)

RESULT





Confirms function then range indicator blinks



Press ADJ Key to select range (e,q.HM range 'HM')



Confirms range selection. 1st digit of preset time blinks.(For modes 'B' & 'C'two preset times 'on' & 'off' to be set)



F 8:39 нм 🔻

Press ADJ key to adjust desire dpreset time digit (e,g.From 5 to 8)



нм 🔻

Press Set to confirm 1st digit selection now 2nd digit blinks





Change with ADJ Key (e, g, from3 to 0)



HM 🔻

Confirms 2nd digit selection ,now 3rd digit of preset Timeb links.



F 8:06 нм 🔻

Change with ADJ Key (e, g, from9 to 6)



F 8:06 нм ▼

Now UP/DOWN Indicator blinks



Change with ADJ Key (e, g,from DOWN to UP)



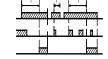


Confirms counting mode . Program Over. Timer starts working normally.

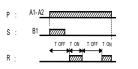
TIMING DIAGRAMS:

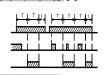
1.ON DELAY [A]



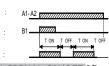


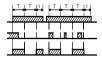
2.CYCLIC OFF/ ON {OFF START (Sym,Asym)} [a]



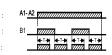


3.CYCLIC ON/OFF {ON START (Sym, Asym)} [[





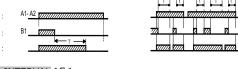
4.SIGNAL ON/OFF





T: PRESET TIME T: PERIOD < T P:POWER S: SIGNAL R: RELAY

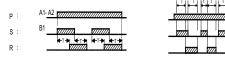
5.SIGNAL OFF DELAY &



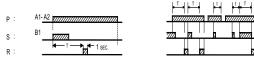
6.INTERVAL [₽]



7.SIGNAL OFF/ON []



8. ONE SHOT OUTPUT [#]



R: RELAY T:PRESET TIME T: PERIOD < T P:POWER S:SIGNAL

FUNCTIONAL DESCRIPTION

1.ON DELAY [角]

The Timer starts when both power (p) and signal (s) are applied .The relay is energized at the end of preset Timer (T) and remains on till power is removed.

2.CYCLIC OFF/ ON {OFF START (Sym,Asym)} [b]

T-ON and T-OFF can be same or different .The relay keeps on changing its status till the power is removed.

3.CYCLIC ON/OFF {ON START (Sym, Asym)} [[]

This function is quite similar to the function "b" but Initially he relay is ON for period T-ON after the power is applied.

4.SIGNAL ON/OFF [#]

The output relay is turned ON for preset Time (T) When ever the signal (S) is applied or removed .(Refer Note :2)

5.SIGNAL OFF DELAY [#]

Output relay become on when signal (S) is applied. The Timer duration (S) is removed .At the end of timer Duration (T) the output relay goes OFF. Signal (S), if Applied during the timer duration (S) will re -trigger The timer and the total duration will be extended.

6.INTERVAL [#]

When Signal (S) is applied ,The Timer Starts and the Output trelay is energized .The output relay be comes OFF at the end of timer duration (T).

7.SIGNAL OFF/ON [5]

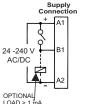
When Signal (s) is applied or removed ,The relay changes. Its state after timer duration (T) (Refer Nots: 2)

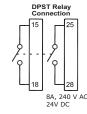
8.ONE SHOT OUTPUT [#]

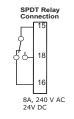
When Signal (s) is applied ,the timer duration (T) Starts. At the end of Timer duration (T), the relay gets energized for approximately 1 sec.(Refer Note:2)

- 1. For power -on operation the terminal B1 and A1 must.
- 2.In case of all modes except mode G a change in Signal(s) status during the Timing Duration (T), does not affect output status but resets timing and re-triggers timing.
- 3. Output de-energises when device enters PROGRAM MODE and starts new cycle after coming out of. PROGRAM MODE.
- 4.Loads which have current requirement 1mA.con only be used as Optional Load .For e.g Contactor coil ,AC Relay Coil, etc,

CONNECTIONS







Altech Corp.®

CAT. NOS.: AMT8-S1 AMT8-D2

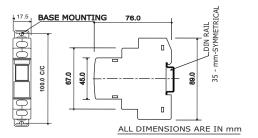


▲ CAUTION:

1.Always follow instructions stated in this product. 2.Before installation, check to ensure that the specifications agree with the intended application. 3.Installation to be done by skilled electrician. 4.Automation & Control devices must be properly installed so that they are protected against any risk of involuntary actuations.

Note . :- Product innovation being a continuous process. We reserve the right to alter specification without any prior notice.

OVERALL DIMENSIONS



TERMINAL DETAILS

Ø3.5 mm	0.54 N.m (5 Lb.in) Terminal screw - M2.5	
	1 x 0.22.5 mm² Solid Wire / Single Wire Ferrule	
	2 x 0.20.5 mm ² Insulated Twin Wire Ferrule	
AWG	1 x 24 to 13	

CAT.No.	AMT8-S1	AMT8-D2	
SUPPLY CHARACTERISTICS		· · · · · · · · · · · · · · · · · · ·	
Nominal Supply (Un)	24 - 240 VAC / DC (50 - 60 Hz, +/-2 Hz)		
Limits	-15 % to+10% of Un		
Power Consumption (Max.)	~10 VA		
RELAY OUTPUT CHARACTERISTICS	10 071		
Contact Arrangement	1 C/O	2 NO	
Contact Rating	(Resistive) 8A / @ 240 VAC /24 VDC	Z IVO	
Contact Naterial	Ag Ni		
Mechanical Life Expectancy	2×10^7		
Electrical Life Expectancy	1 x 10 ⁵		
Switching Frequency (Max.)	1800 Operations / hr. @ rated load		
Status Indication on panel	Red LED - Relay ON		
FEATURE CHARACTERISTICS	Red LED - Relay ON		
	1. ON Delay (角) 2. Cyclic OFF/ON (Sym, Asym) (b)	2.0.1: 01/055/0 4 2/52 4 0/1	
Modes Available	ON/OFF (₫) 5. Signal Off Delay (₤) 6. Interval (₤)	3. Cyclic ON/OFF(Sym, Asym) (戊) 4. Signal 7. Signal OFF/ON (ಔ) 8. One Shot Output (ℍ)	
Timing Ranges	<u>h:m</u> 9:59		
Repeat Accuracy	+/-0.5% of selected range		
Variation in timing due to voltage change	+/-2%		
Variation in timing due to voltage change			
Operating Temperature	-10° C to +55° C		
Storage Temperature			
	-20° C to +65° C		
Humidity (Non - Condensing)	93 % Rh		
Mounting	Base/Din-Rail (35 mm Sym.)		
Terminal capacity	1.5 mm ² (Pin type lugs)		
EMI/EMC			
Harmonic Current Emissions	IEC 61000-3-2 Ed. 3.0 (2005-11) Class A		
ESD	IEC 61000-4-2 Ed. 1.2 (2001-04) Level III		
Radiated Susceptibility	IEC 61000-4-3 Ed. 3.0 (2006-02) Level III		
Electrical Fast Transient	IEC 61000-4-4 Ed. 2.0 (2004-07) Level IV		
Surge	IEC 61000-4-5 Ed. 2.0 (2005-11) Level IV		
Conducted Susceptibility	IEC 61000-4-6 Ed. 2.2 (2006-05) Level III		
Voltage Dips & Interruptions(AC)	IEC 61000-4-11 Ed. 2.0 (2004-03)		
Voltage Dips & Interruptions(DC)	IEC 61000-4-29 Ed. 1.0 (2000-08)		
Conducted Emission	CISPR 14-1 Ed. 5.0 (2005-11) Class B		
Radiated Emission	CISPR 14-1 Ed. 5.0 (2005-11) Class B		
Safety:	,		
Test Voltage Between I/P & O/P	IEC 60947-5 Ed.3.0 (2002-12) 2 kV		
Impulse Voltage Between I/P & O/P	IEC 60947 - 5-1 Ed. 3.0 (2003-11) Level IV		
Single Fault	IEC 61010-1 Ed. 2.0 (2001-02) Level IV		
Insulation Resistance	UL 508 Ed.17 (1999-01) <2000MΩ		
Leakage Current	UL 508 Ed.17 (1999-01) <3.5mA		
Degree of Protection	IP 20 for Terminal; IP-40 for Housing		
Pollution Degree	II		
Type of Insulation	Reinforced		
Environmental:			
Cold Heat	IEC 60068-2-1 Ed. 6.0 (2007-03)		
Dry Heat	IEC 60068-2-1 Ed. 6.0 (2007-03) IEC 60068-2-2 Ed. 5.0 (2007-07)		
Vibration	IEC 60068-2-2 Ed. 3.0 (2007-07) IEC 60068-2-6 Ed. 7.0 (2007-12) 5q		
Repetitive Shock	IEC 60068-2-6 Ed. 7.0 (2007-12) 5g IEC 60068-2-27 Ed. 4.0 (2008-02) 40g, 6ms		
Non-repetitive Shock	IEC 60068-2-27 Ed. 4.0 (2008-02) 40g, 6ms IEC 60068-2-27 Ed. 4.0 (2008-02) 30g, 15ms		
Mon-repetitive Shock	IEC 00000-2-27 Eu. 4.0 (2008-02) 30g, 15MS		