



T481



T482

**T481 : 1, 2-setpoint, single display**  
**T482 : 2-setpoint, dual display**  
**10 milliseconds to 9999 hours**  
**9 user selectable ranges**

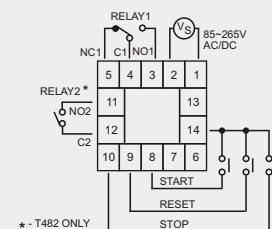
**Incrementing / decrementing display**  
**4 user selectable relay functions**  
**0.01% quartz crystal accuracy**  
**3 user selectable modes (T482 only)**

**SPECIFICATIONS** All specifications at ambient of 25 C, unless specified otherwise

<b>INPUTS</b>	
Reset	Front panel key, terminals at rear
Start	Terminals at rear
Stop	Terminals at rear
Timing start delay (after application of power)	200 milliseconds max
Reset time	0.05 seconds max
<b>RANGE</b>	See Table 1
<b>RESOLUTION</b>	See Table 1
<b>ACCURACY</b>	0.01% of set-time ±1 digit typical 0.025% of set time ±1 digit maximum
<b>OUTPUTS</b>	
No. of relays	T481 : 1 (RL1) T482 : 2 (RL1, RL2)
Relay contacts	1 x NO-C-NC (RL1) 1 x NO-C (RL2)
Relay contact rating	5 A/250 V AC, resistive
Functions	T481 : See Fig 1 ~ 2 T482 : See Fig 3 ~ 8
<b>POWER SUPPLY</b>	
Supply voltage	85~265 V AC/DC, 50/60 Hz
<b>ENCLOSURE</b>	
Material	ABS plastic
Dimensions	48(W) x 48(H) x 100(D)
Mounting	Panel mount
Panel cutout	44 x 44 mm
<b>TEMPERATURE, HUMIDITY</b>	
Ambient, storage	-22 ~ +85 C
Ambient, operation	0 ~ 50 C
Relative humidity	0 ~ 95%
<b>OTHER</b>	
Keyboard	Tactile, 3 keys
Programming	With 3 keys & built-in display
Display	T481 4 digit, 7 segment 0.3" (7.6 mm) red LED display T482 Upper : 4 digit, 7 segment 0.3" (7.6 mm) red LED display Lower : 4 digit, 7 segment 0.3" (7.6 mm) green LED display

<b>PROGRAMMABLE PARAMETERS</b>	
Setpoint	t1, t2
Unit	Seconds / Minutes / Hours
Resolution	0.01, 0.1, 1
Functions	T481 : See Fig. 1 ~ 2 T482 : See Fig. 3 ~ 8 a) ON delay b) Interval c) Cyclic C1 d) Cyclic C2
Direction	Up (Incrementing) Down (Decrementing)
Mode (T482 only)	Modes 0 ~ 2, See Fig 3 ~ 8
Timer start	Selection of timer start a) At power ON b) On application of start pulse
Time stop	a) All (timing & relay) b) Time (timing)
Program lock	On, Off
Reset lock	On, Off

**CONNECTION DIAGRAM**



\* - T482 ONLY

**ORDERING INFORMATION**

T481	
2030	A
A	Supply voltage
0	85~265 V AC/DC

**TABLE 1 - RANGE SELECTION**

UNIT	RANGE	RESOLUTION
s	99.99 s	0.01 s
s	999.9 s	0.1 s
s	9999 s	1 s
m	99 m 59 s	1 s
m	999.9 m	0.1 m
m	9999 m	1 m
h	99 h 59 m	1 m
h	999.9 h	0.1 h
h	9999 h	1 h

T482	
2031	A
A	Supply voltage
0	85~265 V AC/DC

## MODES, FUNCTIONS

t1, t2 = SETPOINT 1, SETPOINT 2

RELAY ON

RELAY OFF

SUPPLY ON

START PULSE

### T481

#### POWER ON START

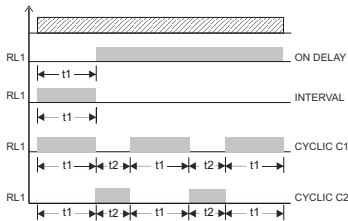


FIG 1

#### START PULSE

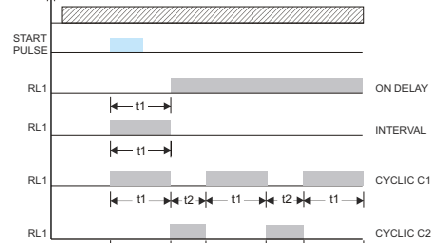


FIG 2

### T482

#### MODE 0 - POWER ON START

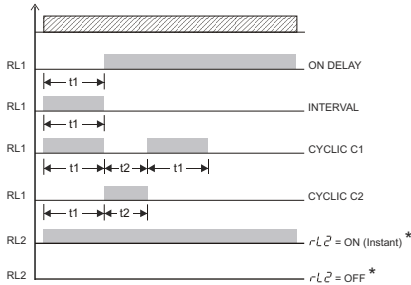


FIG 3

#### MODE 0 - START PULSE

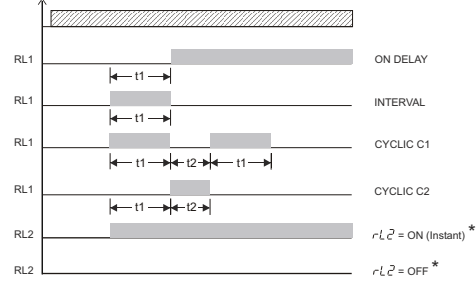


FIG 4

#### MODE 1 - POWER ON START

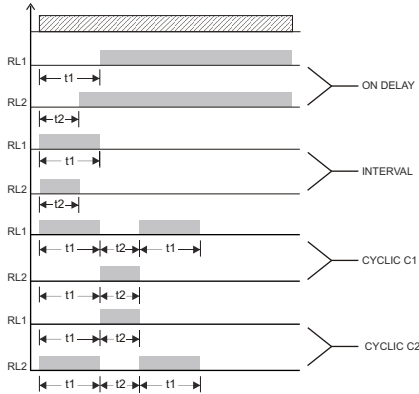


FIG 5

#### MODE 1 - START PULSE

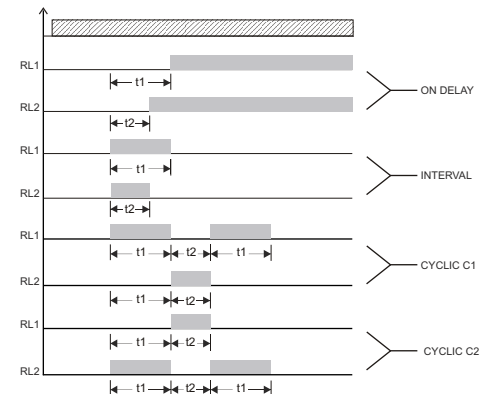


FIG 6

#### MODE 2 - POWER ON START

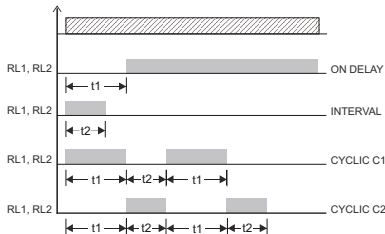


FIG 7

#### MODE 2 - START PULSE

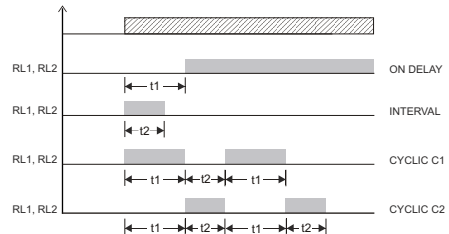


FIG 8

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