### WITH MEMORY, 4 RELAY FUNCTIONS, SETPOINT ON PUSHWHEEL SWITCH



- Non-volatile memory
- 1 setpoint, on pushwheel switches
- 9 user selectable ranges, 0.01 s to 9999 h
- 4 user selectable relay functions
- Incrementing / decrementing display
- 4 control inputs
- Fixed/Configurable control inputs
- ± 0.01% quartz crystal accuracy
- Supply voltage: 85 ~ 265 V AC OR 24 V DC

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

Range Resolution Accuracy Timing start delay (after application of power)

#### **OUTPUTS**

No. of relays Relay contacts Relay contact rating Functions Mutual isolation between Input/Output/Supply

### **CONTROL INPUTS**

No. of control inputs Control input function configuration

Control input functions Assignment of control input functions to control inputs

Front panel reset

POWER SUPPLY Supply voltage

INDICATION Display

**MEMORY** 

# PROGRAMMABLE PARAMETERS

Setpoint Timer Start (After timer start) Control input 1

Control input 2

See Table 1 See Table 1 ± 0.01% of reading ± 0.2 second

0.05 Sec (max)

1 x NO-C-NC + 1 x NO-C 5A / 230V AC, resistive See Fig.1, 2

1500 V AC / 1 Minute

4

a) Fixedb) User configurableSee Table 2, 3

a) Fixed : See Table 2
b) User configurable :
i) Any control function can be assigned to any control input
ii) One control function can be

only (See Table 3)
Will have the same function as reset function selected for control input

assigned to any one control input

85~265 V AC OR 24 V DC

4 digit, 7 segment 0.52" (13.2 mm) red LED display

Non volatile, indefinite retention (for elapsed time)

1x4 digit pushwheel switches Power ON, Control input 1(Start)

Refer Table 3 (For order code 2247-02)

Refer Table 3 (For order code 2247-02)

**Control input 3** 

Control input 4

Units Resolution Functions

Direction

Reset lock (For front key reset) Program lock

OTHER

Keyboard Enclosure construction

Dimensions (in mm)
Mounting
Panel cutout
Operating ambient
temperature
Relative humidity

Refer Table 3

(For order code 2247-02) Refer Table 3 (For order code 2247-02)

Seconds / Minutes / Hours

0.01, 0.1, 1 a) ON delay b) OFF delay

b) OFF delay c) Cyclic C1(Relay ON at power ON) d) Cyclic C2(Relay OFF at power ON)

(See Fig 1, 2) Up (incrementing) Down (decrementing) ON, OFF

ON, OFF

Tactile, 2 keys

Plug-in (circuit removable without affecting terminal wiring)
72(H) x 72(W) x 100(D)

Panel mount 68 x 68 mm 0~50 °C

Below 90%, non condensing

## TABLE 1 - RANGE SELECTION

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			

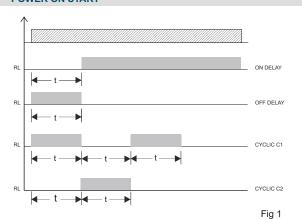
Fig 2

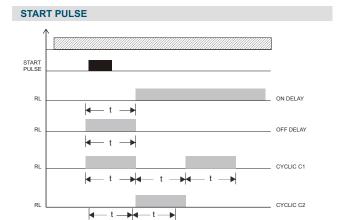
### WITH MEMORY, 4 RELAY FUNCTIONS, SETPOINT ON PUSHWHEEL SWITCH

### **OPERATING MODES**



### **POWER ON START**





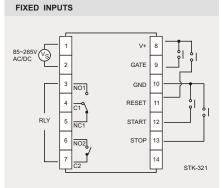
### TABLE 2 - FIXED CONTROL INPUTS (ORDER CODE : 2247-01)

		•	,		
	CONTROL INPUT FUNCTION	DESCRIPTION		CONTROL INPUT FUNCTION	DESCRIPTION
1	Start	Start the timer	3	Gate	Freeze the timer as long as input is present & relay maintain status.
2	Reset	Timer is reset as long as input is present, timer starts when input is removed.	4	Stop	Stop the timer & relay turn OFF.

### TABLE 3 - CONFIGURABLE CONTROL INPUTS (ORDER CODE: 2247-02)

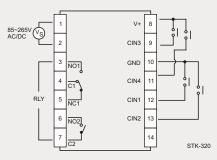
	CONTROL INPUT FUNCTION	DESCRIPTION		CONTROL INPUT FUNCTION	DESCRIPTION
1	Start	Start the timer	6	Gate2	Freeze the timer as long as input is present & relay turn ON.
2	Reset1	Timer is reset as long as input is present, timer starts when input is removed.	7	Gate3	Freeze the timer as long as input is present & relay turn OFF.
3	Reset2	Pulse reset, reset the timer & start immediate.	8	Stop1	Stop the timer & relay maintain status.
4	Reset3	Reset the timer, start pulse is require to start the timer.	9	Stop2	Stop the timer & relay turn ON.
5	Gate1	Freeze the time count as long as input is present & relay maintain status.	10	Stop3	Stop the timer & relay turn OFF.

### **CONNECTION DIAGRAM**



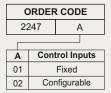
ORDER CODE: 2247-01

# CONFIGURABLE INPUTS



ORDER CODE : 2247-02

### **ORDERING INFORMATION**



### **Ordering Options**

The following ordering options are available on request.

Minimum order quantity and/or minimum order value may apply.

	Option	Details
1.	Supply voltage	24 V DC
2.	Supply voltage	24 V AC



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