

Installation and Operating Manual

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# CHAPTER 1

#### **GENERAL INFORMATION:**

 WHEN THE INSTRUMENT IS VIEWED FROM THE FRONT. THERE ARE 2 DISPLAY WINDOWS, WHICH ARE VISIBLE.
A 4 DIGIT DISPLAY WINDOW (TIMER VALUE) = W-1.
B 4 DIGIT DISPLAY WINDOW (STAGE NO) = W-2. BELOW THE DISPLAY WINDOWS, THERE ARE
FIGHT TUCTULE KEYS, THESE ARE

SET KEY	USED FOR SETTING THE SET POINTS FOR INDIVIDUAL RELAYS.						
F1 KEY	NOT USED HERE.						
RST KEY	TO RESET THE TIMER.						
ENT KEY	FOR ADVANCING IN THE SET POINT MODE.						
ARROW KEYS	TO SET THE DISPLAY.						

### CHAPTER 2

#### **SPECIFICATIONS:**

MAINS SUPPLY	90 - 260 VAC, 50 Hz.
POWER CONSUMPTION	LESS THAN 12 VA AT 230 VAC.
SIGNAL INPUT	LIMIT SWITCH
CONTROL OUTPUT	8 RELAY O/PS.
	(ONE RELAY FOR EACH STAGE)
DISPLAY RANGE	0 – 9999 SEC.
ACCURACY	+/- 1 SEC.
OPERATING	0 TO 50 °C.
TEMPERATURE	
SIZE	96 * 192 * 200 MM
001100	2

### CHAPTER 3

#### PRINCIPLE OF OPERATION:

1. WHEN THE INSTRUMENT IS POWERED ON, THE TIMER SHOWS "0000" IN "W-1" AND "----" IN "W-2".

ON RECEIVING PULSE FROM LIMIT SWITCH TIMER STAGE-1 STARTS AND RELAY-1 IS PUT "ON". THE "W-1" WILL INDICATE ON-TIME-1 & THE "W-2" WILL DISPLAY "ON\_1" & 1st RELAY IS TURNED ON. THIS IS ON-TIMER MODE FOR 1st RELAY. THE FIRST AMBER LED IS TURNED ON FOR VISUAL INDICATION.

2. AT THE COMPLETION OF THE 1<sup>ST</sup> ON-TIME, THE 1<sup>st</sup> RELAY IS TURNED OFF & THE TIMER STOPS INDICATIONG "0000" IN "W-1" AND "----" IN "W-2". ON RECEIVING NEXT PULSE FROM LIMIT SWITCH STAGE-2 STARTS AND RELAY-2 IS PUT "ON". THE "W-1" WILL INDICATE ON-TIME-2 & THE "W-2" WILL DISPLAY "ON\_2" & 2<sup>ND</sup> RELAY IS TURNED ON. THIS IS ON-TIMER MODE FOR 2<sup>ND</sup> RELAY. THE SECOND AMBER LED IS TURNED ON FOR VISUAL INDICATION.

3. LIKEWISE THE INSTRUMENT WILL GO ON FOR THE REMAINING STAGES UPTO STAGE-8.

6. AT THE COMPLETION OF THE 8<sup>TH</sup> ON-TIME, THE INSTRUMENT WILL LOOP BACK TO STEP 1<sup>ST</sup> ON-TIME STAGE i.e. TURNING ON THE 1st RELAY.

THIS IS HOW THE TIMER WILL WORK.

7. RESET KEY IS PROVIDED TO RESET THE TIMER AND START FROM THE FIRST STAGE ON-TIME ON RECEIVING PULSE FROM LIMIT SWITCH.

#### NOTE:

IF ON TIME OF ANY STAGE IS "ZERO". THEN TIMER WILL GOTO THE NEXT STAGE.

# CHAPTER 4

### **KEYBOARD SETTINGS:**

#### TO SET SETPOINTS FOR INDIVIDUAL RELAYS

KEYS	DISPLAY	COMMENT						
PRESS	0010 SP_1	LAST SET VALUE VIZ. 0010						
SET		SECONDS.						
		THIS IS THE TIME FOR WHICH THE						
		1 <sup>ST</sup> RELAY WILL REMAIN ON.						
ARROW		TO CHANGE THE TIME.						
KEYS								
ENT	0010 SP_2	LAST SET VALUE VIZ. 0010						
		SECONDS.						
		THIS IS THE TIME FOR WHICH THE						
		2 <sup>ND</sup> RELAY WILL REMAIN ON.						
ARROW		TO CHANGE THE TIME.						
KEYS								
SIMILAR PROCEDURE IS APPLIED FOR REMAINING								
STAGES UPTO 8 <sup>TH</sup> . AFTER SETTING 8 <sup>TH</sup> STAGE ON-TIME, PRESS								
"ENT" TO COME OUT OF THE SETTING MODE.								
AFTER THIS LAST STEP THE TIMER WILL RESUME THE								
COUNTING.								

#### NOTE:

ALWAYS REMEMBER TO COME OUT OF THE KEYBOARD SETTING MODE.

# CHAPTER 5

### **CONNECTION DIAGRAM:**

<i>Mippon Tec</i> 106, Shivsegarin Tel: 91-22-28276	d.Estate,Öpp	o. Kotkar Indu	stries, Kotk er f E-mail: nippon						
MODEL No. :	<u>4008u</u>						SR No: 02	2160432	
INPUT TYPE :	DI						ID No : I <u>C</u>	0339/1215	
DI 12V NN 080									
POWER 2N0 Vale PNE	Relay-1	Relay-2	Relay-3	Relay-4	Relay-5	Relay-6 nccno	Relay-7	Relay-8	

