



Features

- Programmable Up / Down counting
- Programmable Memory Backup Function
- Timer Range through Keyboard : 9.99 Sec to 999 Hrs
- 2 Programmable Output
- Two Different time range in Cyclic Mode
- Universal supply voltage (90 ~ 270VAC)
- Configurable at Power On (To avoid Tampering)
- 24 VDC Available on Request
- Programmable Number Of Cycle or Total Time for Cyclic Mode

Technical Specifications

Display Specification

Digits	3 Digits Single Row 7 Segment LED Display				
LED Indication	Output - OP1, OP2 Hold Time Status - HLD Time Base - Hrs / Min / Sec				
Height	Model	KTM-446	KTM-666	KTM-776	KTM-996
PV (White)		0.39"	0.39"	0.56"	0.80"
SV (Green)		0.24"	0.39"	0.39"	0.56"

Keys

3 Controlling keys for configuration and operation



Auxiliary Supply Specification

Supply Voltage	90 - 270 VAC (24 VDC Available on Request)
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Functional Specification

Time Base Selection	Through Keyboard
Time Start Mode	1) Power On Start 2) Front Start 3) Remote Pulse High to Low 4) Remote Pulse + Level (Close)
Output 1 Mode	1) ON Delay 2) OFF Delay 3) Cyclic ON-Time First 4) Cyclic OFF-Time First 5) FOR-REV with Hold Time
Output 2 Function	1) Auxiliary Contact 2) Instant Contact 3) End of Cycle 4) Off

Certification

None



Output Specification

Control Output	Relay / SSR Drive (Factory Set)
Output 2	Relay / SSR Drive (Factory Set)
Relay	5A @ 250VAC / 30VDC
SSR Drive	12 VDC @ 30mA

Environmental Specification

Temperature	Operating - 0 to 50°C
Storage	-20° to 75°C
Humidity	95% RH (Non-condensing)

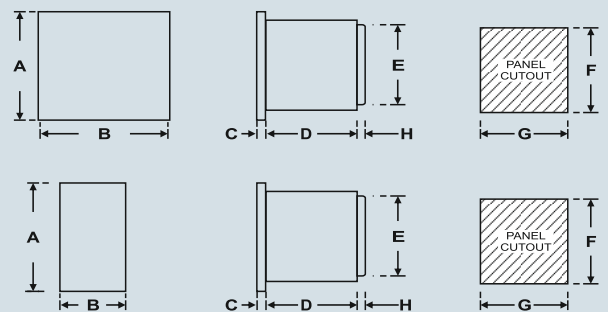
General Description

Model	KTM-446	KTM-666	KTM-776	KTM-996
Weight (Gms)	140	200	230	250
Enclosure	Molded ABS			
Color	Black			
Accessories	1 Pair of Mounting clamp			
Terminal Cable Size	Barrier Type terminal cable Size (2.5 mm ²)			

Input Specification

Control Input	Start - Proximity S/W (PNP / NPN) Potential Free Contact & 3 to 30 VDC Pulse Reset - Front Key, Rear Terminals & Power On
Sensor Supply	12 VDC @ 30mA (SCP)
Accuracy	0.05% FSD
Repeat Accuracy	0.01%

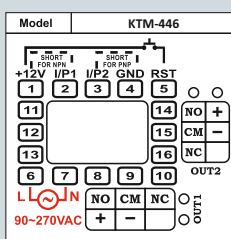
Mechanical Dimensions



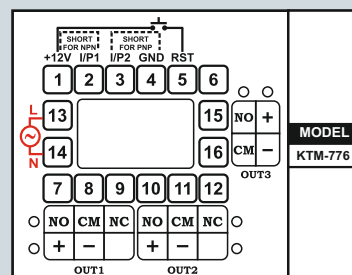
Mechanical Dimensions

Model	Dim A	Dim B	Dim C	Dim D	Dim E	Dim F	Dim G	Dim H
KTM-446	48	48	8	78	43	44	44	9
KTM-666	96	48	10	53	89	92	44	9
KTM-776	72	72	10	65	66	68	68	9
KTM-996	96	96	10	53	89	92	92	9

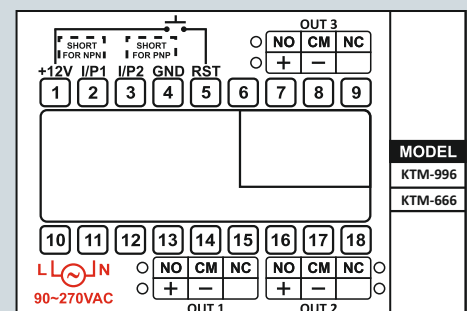
Terminal Diagram



KTM-446



KTM-776



KTM-996 / 666

Order Code : KTM-Series

Size	No. Of Digits	O/P1 Type	O/P2 Type
4 (48X48X78)	3 Digits	R (Relay)	R (Relay)
6 (96X48X53)	6 Digits	S (SSR Drive)	S (SSR Drive)
7 (72X72X65)			
9 (96X96X53)			

Example : KTM-446-R-R

Size	No. Of Digits	O/P1 Type	O/P2 Type
44	6	R	R
4 (48X48X78)	6 Digits	R (Relay)	R (Relay)

Input Sensor Range

Range	Resolution	Accuracy
99.99 s	0.01 sec	± 0.05 % of Full Scale
999.9 s	0.1 sec	
9999 s	1 sec	
99 m 59 s	1 sec	
999.9 m	0.1 min	
9999 m	1 min	
99 h 59 m	1 min	
999.9 h	0.1 hrs	
9999 h	1 hrs	