

Control & Protect Your Panels with **Precision & Reliability**



Earth Leakage Relay

Built on Trust. Designed for high performance.

LED Indications for power on, alarm and trip for easy identification

Ease of programming using dial and dip switches

MODBUS RS485 communication port available

Wide trip time setting from 0-10 sec


ULTIMATE DIGITAL VOLTAGE MONITORING RELAY WITH ADVANCED NEUTRAL LOSS FEATURE



SWITCH TO **DIGITAL VOLTAGE MONITORING RELAY-SM800**

Timing Devices, Supply Monitors & ELR

Timers [9107]


Micon 175	Type	Time	Voltage		Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit	
			240 VAC/24 VAC/DC	110 VAC/24 VAC/DC				
	ON Delay	0.3 sec - 30 hrs	240 VAC/24 VAC/DC	1 C/O	1 C/O	120DT4	795	
			110 VAC/24 VAC/DC			110DT4	1405	
			12 VDC			150DT4	1150	
	ON Delay & Interval	0.1 sec - 100 hrs	240 VAC/24 VAC/DC	240 VAC/24 VAC/DC	1 C/O	1 C/O	12WDTC	1155
	Star Delta Timer	3 sec - 120 sec	240 VAC	240 VAC	1 NO (Star)+1 NO (Delta)	1 C/O (Star)+1 C/O (Delta)	12SDT0	895
			240 - 415 VAC	240 - 415 VAC	1 C/O (Star)+1 C/O (Delta)	1 C/O (Star)+1 C/O (Delta)	14SDT1S	1480
	Signal OFF Delay	0.3 sec - 30 hrs	240 VAC/24 VAC/DC	240 VAC/24 VAC/DC	1 C/O	1 C/O	12RDT4	1090
			12 VDC	12 VDC			15DDT4	1185
	Multifunction Timer	0.1 sec - 100 hrs	12 - 240 VAC/DC	12 - 240 VAC/DC	1 C/O	1 C/O	1CMDT0	1855
					2 C/O	2 C/O	1CMDTF	1975
	Asymmetrical ON/OFF & OFF/ON	0.1 sec - 100 hrs	12 - 240 VAC/DC	12 - 240 VAC/DC	1 C/O	1 C/O	1CJDT0	1855
	One Shot	0.3 sec - 30 hrs	110 VAC/24 VAC/DC	110 VAC/24 VAC/DC	1 C/O	1 C/O	11BDT4	1380
240 VAC/24 VAC/DC			240 VAC/24 VAC/DC	12BDT4			1380	
12 VDC			12 VDC	15BDT4			1450	
Forward Pause Reverse Timer	ON time : 6 sec -60 min Pause time : 0.1 sec-200 sec	12 - 240 VAC / DC	12 - 240 VAC / DC	2 C/O	2 C/O	1CZDTF	1975	

Pause time for Micon 175 star delta timer is 60 msec

1CMDT0 contains ON Delay, Impulse, Signal ON delay, Cyclic ON/OFF, Cyclic OFF/ON, Signal OFF Delay, Signal OFF/ON, Accumulative Delay ON signal, Impulse ON/OFF, Leading edge impulse, Trailing edge impulse, Leading edge Bistable

On Delay and Star Delta Timer Precision in Every pulse. Reliability in Every Start



 Micon 225	Type	Timing Range	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	ON Delay	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O	2A0DT5	1750
	Star Delta Timer	3 sec - 120 sec	24 - 240 VAC/DC	1 NO (Star)+1 NO (Delta)	2ASDT0	1835
			240 - 415 VAC		2BSDT0	2165
	Multifunction Timer	0.1s to 120 days	24 - 240 VAC/DC	2 C/O (1 Inst+1 Delayed)	2A8DT6	1965
	Multifunction Multirange	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O	2A5DT5	1945
			240 - 415 VAC		2B5DT5	2340
	Signal Base Multi function - Multirange	0.1 sec - 10 hrs	24 - 240 VAC/DC	1 C/O	2ANDT0	2065
	Multifunction Timer 6 Functions	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O (1 Inst+1 Delayed for 6th Mode)	2A6DT6	2080
240 - 415 VAC			2B6DT6		2120	
True OFF Delay	0.6 sec - 600 sec	24 - 240 VAC/DC	2 C/O	23GDT0	2855	
Asymmetrical ON/OFF	0.1 sec - 10 hrs	24 - 240 VAC/DC	2 C/O	2AADT5	2200	


Pause time for Micon 225 star delta timer is 60 msec, 90 msec, 120 msec, 150 msec

Major timing functions


2A5DT5, 2B5DT5, 2A6DT6* and 2B6DT6* contains ON Delay, Interval, Cyclic ON/OFF, Cyclic OFF/ON, One Shot, ON Delay, On Delay (1 Inst + 1 Delayed)*

2ANDT0 contains ON Delay, Interval, Signal ON Delay, Accumulative ON Delay, Signal OFF Delay, Signal OFF/ON Delay, Leading edge impulse


2A8DT6 contains ON Delay, Impulse, Signal ON delay, Signal OFF delay, Step mode, One shot, Interval, Cyclic ON/OFF, Cyclic OFF/ON, Signal OFF Delay, Accumulative Delay ON signal, Impulse ON/OFF.

 Digital Timer DIGICON	Functions	Timer	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	8 Functions	0.1 sec - 999 hrs	24 - 240 VAC/DC	1 C/O	V0DDTS	2075
			24 - 240 VAC/DC	2 NO	V0DDTD	2075
	18 Functions	0.1 sec - 999 hrs	24 - 240 VAC/DC	1 C/O	V0DDTS1	2350
24 - 240 VAC/DC			2 NO	V0DDTD1	2350	


V0DDTS and V0DDTD contains On Delay, Signal OFF Delay, Cyclic ON/OFF, Signal OFF/ON, Cyclic OFF/ON, Interval, Signal ON/OFF, One Shot output
V0DDTS1 and V0DDTD1 contains ON Delay, Cyclic OFF/ON, Cyclic ON/OFF, Impulse on energizing, Accumulative Delay ON Signal, Accumulative Delay on Inverted signal, Accumulative Impulse ON signal, Signal ON Delay, Inverted Signal On delay, Signal OFF Delay, Impulse ON/OFF, Signal OFF/ON, Leading edge impulse, Trailing edge impulse, Delayed impulse, Negative edge impulse.

 Motor Restart Timer	Functions	Timer	Voltage	Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
	Motor Restart Timer	Memory time Tm: 0.2 to 6 sec	110 VAC	1 C/O	23LDT0	2300
		Delay time Td: 0.2 to 60 sec	240 VAC		22LDT0	2300

Time Switches [9107]


 FM1 / Quartz	Product Description		Cat. No.	M.R.P. (₹) Per Unit
	FM1 / Quartz Daily	110 VAC - 240 VAC Base/DIN Mounting		

150 Hrs Battery Backup

 Digital Time Switch	Product Description		Cat. No.	M.R.P. (₹) Per Unit
	Time Switch (Crono)	110 - 240 VAC 1 C/O Base/DIN 25 ON/OFF Each		
Time Switch (Crono Pro)	24 VDC 1 C/O Base/DIN 25 ON/OFF Each	6GHDT0	3285	
	12 VDC 1 C/O Base/DIN 25 ON/OFF Each	69HDT0	3460	
	110 - 240 VAC 2 C/O Base/DIN 50 ON/OFF Each	WT2DCDS	3940	
Time Switch (Pulse) *	110 - 240 VAC 1 C/O Base/DIN 16 Pulse	67DDT9	3230	
	24V DC 1 C/O Base /Din 16 Pulse	6GHDT9	3645	
	12V DC 1 C/O Base /Din 16 Pulse	69HDT9	3830	

Crono Pro Crono / Pulse

* For bell and siren application

 Astro	Product Description		Cat. No.	M.R.P. (₹) Per Unit
	Astro Mini	110 - 240 VAC 1 Phase - 2W 1 C/O , Base/Din		
Astro Pro	110 - 240 VAC 1 Phase - 2W 2 C/O , Base/Din 50 ON/OFF Each	AS2DCDS	6615	
Astro	110 - 240 VAC 3 Phase - 4W 3 Channel 3 N/O , Base/Din	T3DDT0	13625	

Astro Pro Astro Mini







Note : Astro Mini / Astro Pro is used for lighting control based on sunrise / sunset timings by latitude / longitude settings primarily used in streetlight application





Smart Timing for Brighter Nights

Supply Monitoring Devices [9032]

› SPP includes single phasing, phase sequence and phase unbalance monitoring with auto reset

Voltage Monitoring Relay Series	Type	Supply Monitoring Type	Time delay	Asymmetry	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit	
	 <p>SM 301</p>  <p>SM 500</p>  <p>SM 500 with Neutral Loss Protection</p>  <p>SM 501</p> <p>Digital VMR Series</p>  <p>SM 800</p>  <p>SM 600 (MMR)</p>	SM301 (3Ph, 3W)	Single Phasing Preventor (SPP*) Fail Safe	ON Delay 2 sec and OFF Delay 7 sec	65 VAC Asymmetry	415 VAC, 1 C/O	MA51BC	1220
						415 VAC, 2 C/O	MC21B5	1780
					40 VAC Asymmetry	415 VAC, 1 C/O	MA51BK	1210
		SM301 (3Ph, 3W)	Phase loss monitoring Non Fail Safe Type	OFF Delay 500 msec and Recover Delay 2 Sec	30% Fixed	415 VAC, 1 C/O	MA59B5	1400
			Selectable Under Voltage + Selectable Over Voltage	Selectable ON Delay (0 to 15 min)	-	240 VAC, 1 C/O	MD71B9	1890
				Selectable ON Delay (0 to 15 sec)	-		MD71BH	1890
				Selectable OFF Delay (0 to 15 sec)	-		MD71BF	2215
		SM500 (3 Ph / 1 Ph, 4W)	Single Phasing Preventor + Selectable Under Voltage + Selectable Over Voltage	Selectable ON Delay (0 to 15 min) & OFF Delay 5 sec	Phase Asymmetry 10% fixed	240 VAC, 2 C/O	MG73B9	2310
				Selectable ON Delay (0 to 15 sec) & OFF Delay 5 sec	Phase Asymmetry 10% fixed		MG73BH	2310
				Selectable OFF Delay (0 to 15 sec) & ON Delay 5 sec	Phase Asymmetry 10% fixed		MG73BF	2310
				SPP + UV/OV, with fixed UV (173 V) & OV (288 V)	Selectable ON (10 Sec) and OFF Delay (5 Sec)		Phase Asymmetry 20% fixed	MG73BR
			SPP + Selectable UV + Selectable OV with Neutral Loss Protection	ON Delay 5 sec and OFF Delay 5 sec, 500ms-1s for Neutral fail	94 VAC Asymmetry	415 VAC, 3 Ph 4W, 2 C/O	MAC04 D0100	2310
	SM501 (3 Ph, 3W)	SPP + Under Voltage (80% of ϕ)	Selectable ON Delay and OFF Delay 15 sec	Selectable Asymmetry (5% to 17%)	415 VAC, 2 C/O	MB53BM	2350	
				Selectable ON Delay 15 sec & OFF Delay 5 sec		Phase Asymmetry 10%	MG53BH	2350
				Selectable OFF Delay 15 sec & ON Delay 5 sec		Phase Asymmetry 10%	MG53BF	2350
				ON Delay 5 sec and OFF Delay 5 sec		65 VAC Asymmetry	MG53BI	2220
				ON Delay 3 min and OFF Delay 5 sec UV 85% of ϕ OV 110% of ϕ		Phase Asymmetry 10%	MG53BO	2220
	SM 800 (3PH/ 3W, 4W)	Single Phasing Preventor+ Selectable Under Voltage + Selectable Over Voltage + Neutral Loss (Applicable for 3P4W).	Power ON Delay (0 to 999 sec) , OFF Delay (0.1 to 999 sec) & ON delay (0.5 to 999 sec)	Voltage: 5 to 99 VAC (Default 60V) , Percentage : 2 to 50% (Default 10%)	145-500 VAC (Line Voltage), 1C/O	DMS110	2250	
						145-500 VAC (Line Voltage), 2C/O	DMS120	2380
						85-300 VAC/DC (Auxiliary Supply) (P-N), 2 C/O	DMA220	2625
	SM 600 (3P, 3W)	Phase loss+ Phase Sequence +Phase Asymmetry + UV + OV+3 phase interruption	Power ON delay (5s Fixed),ON delay (1-30 sec or Fixed), OFF delay (0.1 - 30 sec or Fixed)	Voltage +_ 1% of set value	500V -1000V AC 2 C/O	SMB110	10850	

Note : 3 Ph 3W - 3 Phase 3 Wire system; 3 Ph 4W - 3 Phase 4 Wire system.

Voltage Monitoring Relay Series	Type	Supply Monitoring Type	Time delay	Asymmetry	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit				
	 <p>SM175 3 Ph, 3W</p>  <p>SM175 3 Ph, 4W</p>	SM175 (3 Ph, 3W)	Phase loss + Phase Sequence Monitoring	ON Delay 500 msec & OFF Delay 100 msec	-	208 - 480 VAC, 1 C/O (Steps of 208 - 220 - 380 - 400 - 415 - 440 - 480 VAC)	MK21D5	1455			
ON Delay 500 msec & OFF Delay 100 msec				Phase Asymmetry (30% fixed)	MC21D5		1455				
ON Delay 5 sec & OFF Delay 100 msec (0 to 15s Selectable)				Phase Asymmetry (5% to 15% variable)	MA21DN		1900				
SM175 (3 Ph, 4W)		Phase Loss + Phase Sequence + Under Voltage + Over Voltage monitoring (UV: -2% to -20% of U_n , OV: 2% to 20% of U_n)	ON Delay 5 sec and Selectable OFF Delay (0 to 15 sec)	-	208 - 480 VAC, 1 C/O (Steps of 208 - 220 - 380 - 400 - 415 - 440 - 480 VAC)		MD21DF	1900			
							Phase Loss + Phase Sequence + Under Voltage + Over Voltage (UV: -5% to -25% of U_n , OV: 5% to 25% of U_n)	Selectable ON Delay (0.5 to 15 sec) and OFF Delay 5 sec	Phase Asymmetry (10% fixed)	MG21DH	2130
								ON Delay 5s and Selectable OFF Delay (0 to 15 sec)		MG21DF	2130
SM175 (3 Ph, 4W)	Phase loss+ Phase Sequence+ Under Voltage + Over Voltage (UV:-2% to -22% of U_n , OV: 2% to 22% of U_n)	Selectable ON delay (0 to 15 Sec), Selectable OFF delay (0 to 15 sec)	Phase Asymmetry (10% fixed)	120 to 277 VAC (3P, 4W), 1 C/O	MAG03D0424*	2430					
					Phase loss+ Phase Sequence+ Under Voltage + Over Voltage (UV:-5% to -25% of U_n / 60% of U_n (Fixed), OV: 5% to 25% of U_n / 110% of U_n (Fixed))	Selectable ON delay (0 to 15 sec/min), Selectable OFF delay (0 to 15 sec/min)	Phase Asymmetry (10% fixed/ 5% to 25% Selectable)	MAG03D0425*	2430		
								MAG03D0426*	2430		
SM175 (3 Ph, 3W)	Phase loss Monitoring	ON delay 750 msec & OFF delay 500 msec	Phase Asymmetry (30% fixed)	415 VAC, 1 C/O	MAG03D0427*	1635					


* - Available till stock lasts.


Monitoring voltage. Safeguarding system.




Current Monitoring relay (CMR)

- › Microprocessor based relay protects against Overload, Phase reverse, Phase loss, Phase unbalance faults
- › Auto/ Manual reset selection
- › Fail- safe protection with inbuilt CT upto 45A
- › Inverse time model with underload, locked rotor protection and selectable trip class (10A, 10, 20, 30)
- › Definite time model with underload and selectable start and trip time

Current Monitoring relay	Phase	Type	Current & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
		3 Phase	Inverse Time Current Monitoring Relay	2 - 5A, 1 C/O	17A422CB0
3 - 9A, 1 C/O				17A122CB0	
8 - 24A, 1 C/O				17A222CB0	
15 - 45A, 1 C/O				17A322CB0	
Definite Time Current Monitoring Relay			2 - 5A, 1 C/O	17B422AA0	
			3 - 9A, 1 C/O	17B122AA0	
		8 - 24A, 1 C/O	17B222AA0		
		15 - 45A, 1 C/O	17B322AA0		
1 Phase		Inverse Time Current Monitoring Relay	2 - 5A, 1 C/O	17C412EB0	2565
			3 - 9A, 1 C/O	17C112EB0	
			8 - 24A, 1 C/O	17C212EB0	
			15 - 45A, 1 C/O	17C312EB0	
	Definite Time Current Monitoring Relay	2 - 5A, 1 C/O	17D412DA0		
		3 - 9A, 1 C/O	17D112DA0		
8 - 24A, 1 C/O		17D212DA0			
15 - 45A, 1 C/O		17D312DA0			

PTC Thermistor Relay Series	Relay Type	Description	Cat. No.	M.R.P. (₹) Per Unit
		Thermistor Relay	110 - 240 VAC, 2 C/O	MJ83BK
220 - 440 VAC, 2 C/O			MJ93BK	2670
24 VAC/DC, 2 C/O			MJA3BK	3095
110 - 240 VAC, 1 C/O			MJ81BK	2445
220 - 440 VAC, 1 C/O			MJ91BK	2480

Hour Meter & Counter [9029]

Hour Meters	Product Description	Cat. No.	M.R.P. (₹) Per Unit												
		HM36, 85 - 265 VAC Flush Mounting	LA25F1	1010											
HM 36, 10 - 80 VDC Flush Mounting		LD17F1	1530												
HM36, 92 - 264 / 270 - 460 VAC Base - DIN Mounting		30A6B1	1100												
HM36, 10 - 80 VDC Base/DIN Mounting		30D1B1	1530												
Digital Hour Meter/Digital Counter (Resettable)		Z□□FB□	1835												
Hour Meter / Counter Z □ □ FB □ <table border="0" style="margin-left: 20px;"> <tr> <td style="border: 1px solid black; padding: 2px;">Voltage</td> <td style="border: 1px solid black; padding: 2px;">1 Hour Meter</td> <td style="border: 1px solid black; padding: 2px;">Bezel</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">H 10 - 80 VDC</td> <td style="border: 1px solid black; padding: 2px;">2 Counter</td> <td style="border: 1px solid black; padding: 2px;">A Round</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">7 85 - 265 VAC</td> <td></td> <td style="border: 1px solid black; padding: 2px;">B 24 x 48</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">J 12 - 48 VAC/DC</td> <td></td> <td style="border: 1px solid black; padding: 2px;">C Screw Mount</td> </tr> </table>				Voltage	1 Hour Meter	Bezel	H 10 - 80 VDC	2 Counter	A Round	7 85 - 265 VAC		B 24 x 48	J 12 - 48 VAC/DC		C Screw Mount
Voltage	1 Hour Meter	Bezel													
H 10 - 80 VDC	2 Counter	A Round													
7 85 - 265 VAC		B 24 x 48													
J 12 - 48 VAC/DC		C Screw Mount													

Earth Leakage Relay [9032]

Earth Leakage Relays		Current Range	Type	Voltage & Contact Arrangement	Cat. No.	M.R.P. (₹) Per Unit
 <p>96 x 96 mm Earth Leakage Relay</p>  <p>DIN Mounted Earth Leakage Relay</p>  <p>CBCT</p>  <p>Rectangular CBCT</p>	30mA - 30A	Panel mounted (96 x 96 mm) Earth Leakage Relay	110 - 240 VAC/DC, 1 C/O (Pre-alarm) + 1 C/O (Fault)	17K716QF4N	4725	
			110 - 240 VAC/DC, 1 C/O (Pre-alarm) + 1 C/O (Fault) with RS 485	17K716QF4M	6795	
			240 - 415 VAC/DC, 1 C/O (Pre-alarm) + 1 C/O (Fault)	17K726QF4N	4725	
			240 - 415 VAC/DC, 1 C/O (Pre-alarm) + 1 C/O (Fault) with RS 485	17K726QF4M	6795	
		DIN mounted Earth Leakage Relay	110 - 240 VAC, 110 VDC, Manual reset	17G715GF2	4240	
			220 - 415 VAC, 220 VDC, Manual reset	17G745GF2		
			15 VDC, Manual reset	17G755GF2*		
			110 - 240 VAC, 110 VDC, Auto reset	17G715KF2		
			220 - 415 VAC, 220 VDC, Auto reset	17G745KF2		
			15 VDC, Auto reset	17G755KF2*		
		CBCT (moulded case) for Type A & AC Current	38 mm ID	17H7NNHN3	1455	
			57 mm ID	17H7NNIN3	1965	
			70 mm ID	17H7NNQN3	2235	
			92 mm ID	17H7NNJN3	2445	
			120 mm ID	17H7NNLN3	2550	
			210 mm ID	17H7NNKN3	4810	
		CBCT (moulded case) for Type AC Current	38 mm ID	17H7NNRN3	1090	
			57 mm ID	17H7NNVN3	1220	
70 mm ID	17H7NNSN3		1290			
92 mm ID	17H7NNTN3		1730			
120 mm ID	17H7NNUN3		2005			
Rectangular CBCT (moulded case) for Type AC Current	300 x 50 mm ID	17H9NNWN0	9610			
	350 x 150 mm ID	17H9NNXN0	11680			

* - Available till stock lasts.

- › CBCT for Type AC : For applications with sinusoidal alternating current from 30mA to 30 A.
- › CBCT for Type A and AC : For applications with sinusoidal alternating current (from 30mA to 30A) & pulsating DC current (from 30mA to 3A).
- › Please contact nearest branch office for requirements of higher dimension CBCTs.

These products are manufactured by



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