



Temperature Controller

Process Control Instruments

Programmable Timers

Programmable Counters

Power & Energy Meters

Protection Devices



PRODUCT CATALOG



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INDEX

Temperature Controller	Pg-1
Process Control Instruments	Pg-8
Programmable Timers	Pg-15
Programmable Counters	Pg-18
Power & Energy Meters	Pg-25
Protection Devices	Pg-30

1

TEMPERATURE DIGITAL TEMPERATURE INDICATORS

Fixed Input



MODEL		TI-11	TI-21	TI-31	TI-38	TI-41
Dimension (HxWxD) mm		96 X 96 X 42	72 X 72 X 60	48 X 96 X 67	48 X 96 X 67	48 X 48 X 70
Panel Cutout (mm)		92 X 92	68 X 68	44 X 92	44 X 92	44 X 44
INPUT	Sensor	J/K/PT-100 2W/3W (Factory Set)				
	Range	J (0°C to 400°C OR 0°C to 600°C), K (0°C to 1200°C), PT-100 2W/3W (-50.0°C to 200.0°C, 0°C to 400°C)				
SPECIFICATION	Accuracy	±1% of FSD				±1% of FSD
	Supply	230V AC ± 10%, 50Hz				100-250V AC, 50/60 Hz
	Note	Sensor input R & S are also possible as per customer's request.				

DIGITAL TEMPERATURE CONTROLLERS

Fixed Input



MODEL		TC-19	TC-29	TC-49	CC-5000
Dimension (HxWxD) mm		96 X 96 X 42	72 X 72 X 60	48 X 48 X 70	36 X 76 X 72
Panel Cutout (mm)		92 X 92	68 X 68	44 X 92	29 X 71
INPUT	Sensor	J/ K/ R/ S / PT-100 2W/3W (Factory Set)		J/ K (Configurable) and PT-100 2W/3W (Factory Set)	NTC (Thermistor)
	Range	J (0°C to 400°C & 0°C to 600°C), K (0°C to 1200°C),PT-100 2W/3W (0°C to 400°C, -50.0°C to 200.0°C)		J (0°C to 400°C & 0°C to 600°C), K (0°C to 999°C),PT-100 2W/3W (0°C to 400°C, -50°C to 400°C)	NTC (-40°C to 90°C)
OUTPUT		1Relay 1C/O, 5A, 230V AC	1Relay 1C/O, 5A, 230V AC & SSR 12V DC Parallel		1Relay 1C/O, 15A, 230V AC (With Defrost Facility)
SPECIFICATION					
	Control Action	Time Proportional / ON-OFF (Factory Set)		TP/ ON-OFF (Configurable)	ON-OFF (Cooling Mode)
	Accuracy	±1% of FSD		±1% of FSD	
	Supply	230V AC ± 10%, 50Hz		100-250V AC, 50/60 Hz	230V AC ± 10%, 50Hz
	Note	In CC-5000 2 Relay for alarm purpose available as per requirement			

NEW
LAUNCH



CHILLER CONTROLLER



TEMPERATURE TEMPERATURE CONTROLLER

Fixed Input & Fixed Action, Push to set facility



MODEL	MDC-1901	MDC-2901	DTC-49D
Dimension (HxWxD) mm	96 X 96 X 100	72 X 72 X 120	48 X 48 X 102
Panel Cutout (mm)	92 X 92	68 X 68	44 X 44
INPUT	Sensor		J/ K/ PT-100 2W/3W (Factory Set)
	Range		J (0°C to 400°C), K (0°C to 1200°C), R (0°C to 1600°C)
OUTPUT	PT-100 2W/3W (0°C to 400°C, 0.0°C to 199.9°C or -50.0°C to 199.9°C)		PT-100 2W/3W (0°C to 400°C, 0.0 or -50.0°C to 199.9°C)
	1Relay 1C/O, 5A, 230V AC & SSR 12V DC (Factory set)		
SPECIFICATION	Control Action		Time Proportional (TP) / ON-OFF (Factory set)
	Accuracy		±1% of FSD
	Supply		230V AC ± 10%, 50Hz

PID TEMPERATURE CONTROLLER

Single Display Fix Input



MODEL		TC-29P	TC-49P
Dimension (HxWxD) mm		72 X 72 X 60	48 X 48 X 70
Panel Cutout (mm)		68 X 68	44 X 92
INPUT	Sensor	J/ K/ PT-100 2W/3W (Factory Set)	J/ K (Configurable) and PT-100 2W/3W (Factory Set)
	Range	J (0°C to 400°C & 0°C to 600°C),K (0°C to 1200°C) PT-100 2W/3W (0°C to 400°C, -50.0°C to 200.0°C)	J (0°C to 400°C & 0°C to 600°C),K (0°C to 999°C) PT-100 2W/3W (0°C to 400°C, -50°C to 400°C)
OUTPUT		1Relay 1C/O, 5A, 230V AC & SSR 12V DC Parallel	
SPECIFICATION			
Control Action		PID/ ON-OFF (Configurable)	PID/ ON-OFF (Configurable)
Accuracy		±1% of FSD	±1% of FSD
Supply		230V AC ± 10%, 50Hz	100-250V AC, 50/60 Hz

1

TEMPERATURE TEMPERATURE CONTROLLERS

Single Display, 3 Digit, PID - Economy Range



MODEL	UTC-113P	UTC-213P	UTC-413P
Dimension (HxWxD) mm	96 X 96 X 50	72 X 72 X 85	48 X 48 X 70
Panel Cutout (mm)	92 X 92	68 X 68	44 X 44
INPUT	Sensor		
	J/K/PT-100 2W/3W (Configurable)		
OUTPUT	Range		
	J (0°C to 600°C), K (0°C to 999°C) PT-100 2W/3W (-99°C to 400°C)		
SPECIFICATION	1Relay 1C/O, 5A, 230V AC & SSR 12V DC Parallel (1 Set point)		
Control Action	PID / ON-OFF (Configurable)		
Accuracy	±1% of FSD		
Supply	100-250V AC, 50/60 Hz		

TEMPERATURE CONTROLLERS

Single Display 4 Digit, PID - Economy Range



MODEL	UTC-111P	UTC-211P	UTC-411P
Dimension (HxWxD) mm	96 X 96 X 50	72 X 72 X 85	48 X 48 X 70
Panel Cutout (mm)	92 X 92	68 X 68	44 X 44
INPUT	Sensor		
	J/ K/ PT-100 2W/3W (Configurable)		
OUTPUT	Range		
	J (0°C to 600°C), K (0°C to 1200°C) PT-100 2W/3W (-99°C to 400°C, -99.9°C to 400.0°C)		
SPECIFICATION	1Relay 1C/O, 5A, 230V AC & SSR 12V DC Parallel (1 Set point)		
Control Action	PID / TP / ON-OFF (Configurable)		
Accuracy	±1% of FSD		
Supply	100-250V AC, 50/60 Hz		

TEMPERATURE TEMPERATURE CONTROLLER

Double Display, Autotune PID

1



MODEL	UTC-121P	UTC-221P	UTC-421P	UTC-321P
Dimension (HxWxD) mm	96 X 96 X 50	72 X 72 X 85	48 X 48 X 70	96 X 48 X 75
Panel Cutout (mm)	92 X 92	68 X 68	44 X 44	92 X 44
INPUT	Sensor J/K/PT-100 2W/3W (Configurable)			
	Range J (0°C to 600°C), K (0°C to 1200°C) PT-100 2W/3W (-99°C to 400°C, -99.9°C to 400.0°C)			
OUTPUT	1Relay 1C/O, 5A, 230V AC & SSR 12V DC Parallel (1 Set point)			
SPECIFICATION	Control Action PID / ON-OFF (Configurable)			
	Accuracy ±1% of FSD			
	Supply 100-250V AC, 50/60 Hz			

TEMPERATURE CONTROLLER

Double Display, TP & ON/OFF Action



MODEL	UTC-121	UTC-221	UTC-421
Dimension (HxWxD) mm	96 X 96 X 50	72 X 72 X 85	48 X 48 X 70
Panel Cutout (mm)	92 X 92	68 X 68	44 X 44
INPUT	Sensor J/ K/ PT-100 2W/3W (Configurable)		
	Range J (0°C to 600°C), K (0°C to 1200°C) PT-100 2W/3W (-99°C to 400°C, -99.9°C to 400.0°C)		
OUTPUT	1Relay 1C/O, 5A, 230V AC & SSR 12V DC Parallel (1 Set point)		
SPECIFICATION	Control Action TP/ ON-OFF (Configurable)		
	Accuracy ±1% of FSD		
	Supply 100-250V AC, 50/60 Hz		

1

TEMPERATURE

TEMPERATURE CONTROLLERS

Dual Output PID Controller -BASIC FEATURED



MODEL		UTC-122	UTC-222	UTC-422
Dimension (HxWxD) mm		96 X 96 X 50	72 X 72 X 85	48 X 48 X 95
Panel Cutout (mm)		92 X 92	68 X 68	44 X 44
INPUT	Sensor	J/K/PT-100 2W/3W (Configurable)		
	Range	J (0°C to 600°C), K (0°C to 1200°C) PT-100 2W/3W (-99°C to 400°C, -99.9°C to 400.0°C)		
OUTPUT		2Relay 1C/O, 5A, 230V AC & SSR 12V DC Parallel (2 Set point) (Heat + Cool) (Factory Set)		
SPECIFICATION				
	Control Action	PID / ON-OFF (Configurable)		
	Accuracy	±1% of FSD		
	Supply	100-250V AC, 50/60 Hz		

TEMPERATURE CONTROLLERS

Dual Output PID Controller - FULL FEATURED



MODEL	UTC-1202	UTC-2202	UTC-4202	UTC-3202
Dimension (HxWxD) mm	96 X 96 X 50	72 X 72 X 85	48 X 48 X 95	96 X 48 X 75
Panel Cutout (mm)	92 X 92	68 X 68	44 X 44	92 X 44
INPUT	Sensor	J/K/PT-100 2W/3W (Configurable)		
	Range	J (0°C to 600°C), K (0°C to 1200°C) PT-100 2W/3W (-99°C to 400°C,-99.9°C to 400.0°C)		
	OUTPUT	2Relay 1C/O, 5A, 230V AC & SSR 12V DC Parallel (2 Set point)		
SPECIFICATION	Operating Mode	High / Low / Inband / Outband / Absolute Low / Absolute Outband Alarm (Configurable) + Soak Timer		
	Control Action	PID / TP / ON-OFF (Configurable)		
	Accuracy	±1% of FSD		
	Supply	100-250V AC, 50/60 Hz		

TEMPERATURE 9 STAGE PROFILE CONTROLLER HUMIDITY + TEMPERATURE CONTROLLER



MODEL	PRC-1202 (Profile Controller)	MHT-1202 (Humidity + Temp. Controller)
Dimension (HxWxD) mm	96 X 96 X 100	96 X 96 X 50
Panel Cutout (mm)	92 X 92	92 X 92
INPUT	Sensor	J/ K/ PT-100 2W/3W (Factory Set)
	Range	J (0°C to 600°C), K (0°C to 1200°C), PT-100 2W/3W (-99°C to 400°C, 0.0°C to 400.0°C)
OUTPUT	2 Relay 1C/O (9 set point)	As per requirement
SPECIFICATION	Control Action	ON-OFF
	Accuracy	±1% of FSD
	Supply	100-250V AC, 50/60 Hz

S-1: PT-100/3W (RTD) S-2: Humidity Sensor

PT-100/3W (-99°C to 400°C)
Humidity Sensor (5% to 95% RH)

TEMPERATURE CONTROLLER - UNIVERSAL Double Display PID Controller - 3 Relay



MODEL	PID-4203C (With CT Module)	UTC-4203
Dimension (HxWxD) mm	48 X 48 X 95	48 X 48 X 95
Panel Cutout (mm)	44 X 44	44 X 44
INPUT	Sensor	J/K/PT-100 (Configurable)
	Range	J (0°C to 600°C), K (0°C to 1200°C) PT-100 2W/3W (-99°C to 400°C, -99.9°C to 400.0°C)
	CT Input	CT Module (3 CT-30Amp Each)
OUTPUT	3Relay 1C/O, 5A, 230V AC & SSR 12V DC (Factory Set)(3 Set point)	3Relay 1C/O, 5A, 230V AC & SSR 12V DC (Factory Set)(3 Set point)
SPECIFICATION	Control Action	PID / TP / ON-OFF (Configurable)
	Accuracy	±1% of FSD
	Supply	100-250V AC, 50/60 Hz

1

TEMPERATURE

UNIVERSAL PROGRAMMABLE CONTROLLER

Auto Tune PID, RS-485 MODBUS Facility

**NEW
LAUNCH**



MODEL		PTC-1202A-M1	PTC-4202A-M1
Dimension (HxWxD) mm		96 X 96 X 50	48 X 48 X 95
Panel Cutout (mm)		92 X 92	44 X 44
INPUT	Sensor	J/K/PT-100 2W/3W (Configurable)	
	Range	J (0°C to 600°C), K (0°C to 1200°C), PT-100 2W/3W (-99°C TO 400°C, -99.9°C TO 400.0°C) For Temperature Sensor -999 To 9999 for analog input	
OUTPUT	Output 1	Relay/SSR (Factory Set)	
	Output 2	Relay/SSR (Factory Set)	
	Output 3	0-10V DC/4-20mA DC Controlling/Retransmission Output (Factory Set)	
	PC Communication	RS-485 MODBUS Communication	
SPECIFICATION			
Control Action		PID / ON-OFF (Configurable)	
Accuracy		±1% of FSD	
Supply		100-250V AC, 50/60 Hz	

PROCESS CONTROL INSTRUMENT

PROCESS INDICATORS

Full Featured

2



MODEL	PI-11	PI-21	PI-31	PI-38	PI-41	PI-54
Dimension (HxWxD) mm	96 X 96 X 50	72 X 72 X 60	48 X 96 X 75	48 X 96 X 67	48 X 48 X 70	38 X 62 X 80
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92	44 X 92	44 X 44	44 X 44
INPUT	Sensor	0-10V DC/0-20mA DC/4-20mA DC (Configurable)				
	Range	-999 to 9999 (Configurable)				
RESOLUTION	0.000/00.00/000.0/0000 (Configurable)					
FEATURES	Correction Factor, Offset, Filtrations Rate, Reverse Scaling					
SUPPLY	100-250V AC, 50/60Hz					

PROCESS CONTROLLER

With Relay & Excitation Facility

NEW
LAUNCH



NEW
LAUNCH



NEW
LAUNCH



MODEL		PIC-11	PIC-31/38 (0.8" Display)
Dimension (HxWxD) mm		96 X 96 X 42	48 X 96 X 120
Panel Cutout (mm)		92 X 92	44 X 92
INPUT	Sensor	0 To 10V DC/ 0 To 20mA/ 4 To 20mA DC (Configurable)	
	Range	-999 To 9999 (Configurable)	
OUTPUT	Output 1	1Relay, 5A, 230V AC	
	Output 2	24V DC Transmitter Supply	
SPECIFICATION	Operating Mode	High / Low / Inband / Outband / Absolute Low / Absolute Outband Alarm (Configurable)	
	Accuracy	±1% of FSD	
	Supply	100-250V AC, 50/60 Hz	

PROCESS CONTROL INSTRUMENT

PROCESS CONTROLLER



MODEL	PIC-1101	PIC-3102H	PIC-4202
Dimension (HxWxD) mm	96 X 96 X 55	48 X 96 X 120	48 X 48 X 95
Panel Cutout (mm)	92 X 92	44 X 92	44 X 44
INPUT	Sensor	0 To 10V DC/ 4 To 20mA DC/ 0 To 20mA DC (Configurable)	
	Range	-999 to 9999 (Configurable)	
OUTPUT	Output 1	2Relay 5A, 230V AC	
	Output 2	24V DC transmitter Supply (Optional)	
	Output 3	4-20mA / 0-10mA Retransmission Output (Factory Set)(Optional)	
	Output 4	RS-485 MODBUS (Optional)	
SPECIFICATION	Operating Mode	High / Low / Inband / Outband / Absolute Low / Absolute Outband Alarm (Configurable)	
	Accuracy	±1% of FSD	
	Supply	100-250V AC/DC SMPS, 50/60 Hz	
		High / Low / Inband / Outband / Absolute Low / Absolute Outband Alarm (Configurable)	

FLOW RATE INDICATOR CUM TOTALISER

With Retransmission & Excitation Facility



MODEL	MFC-1048	MFC-1048D	MFC-3016D
Dimension (HxWxD) mm	96 X 96 X 50	96 X 96 X 42	48 X 96 X 67
Panel Cutout (mm)	92 X 92	92 X 92	44 X 92
INPUT	Sensor	4 To 20mA DC / 0 To 10V DC / Pulse (Factory set)	
	Range	0 To 99999999 For Total Flow 0 To 9999 For Flow Rate	
OUTPUT	Output 1	4-20mA DC/0-10V DC Retransmission (Factory Set)	4-20mA DC/0-10V DC Retransmission (Factory Set)
	Output 2	24V DC Transmitter Supply	24V DC Transmitter Supply
	Output 3	1Relay / 2Relay ,5A,230V AC (On Total Flow or Flow Rate)	24V DC Transmitter Supply
	Output 4	RS-485 MODBUS Communication	RS-485 MODBUS Communication
	Output 5	RS-232 PC or Printer Interface	
SPECIFICATION	Accuracy	±1% of FSD	
	Supply	100-250V AC/DC SMPS, 50/60 Hz	
Note		All Output are optional	

PROCESS CONTROL INSTRUMENT SIGNAL ISOLATOR & CURRENT TRANSDUCER

2



MODEL		MI-631/MI-632/MI-631P	MI-731/732	CTR-63
Dimension (HxWxD) mm		76 X 27 X 116	70 X 60 X 110	76 X 27 X 116
INPUT	Mounting	Din rail mounting	Din rail mounting	Din rail mounting
	Input Signal	0-20mA/4-20mA / 0-10V DC / -10 To 10V DC / 0 To 300V DC / 0 To 300V AC Resistance 2W or 3W Port / Any range in mV DC (Factory Set)		0 To 5A AC, 0 To 10A AC (Factory Set)
OUTPUT		J/K/PT-100 2W/3W		
	Output	0-20mA/4-20mA/ 0-10V DC (Single or Dual Output) (Factory Set)		
SPECIFICATION	Accuracy	±1% of FSD		
	Supply	100-250V AC, 50/60 Hz, SMPS/24V DC (Factory Set)		

LOOP POWERED TRANSMITTER & SYNCHRONIZER CARD



MODEL		LPT-45	LPT-63	SN-126
Dimension (HxWxD) mm		Diameter : 45 mm	76 X 27 X 116	75 X 45 X 117
INPUT	Mounting	Head Mounting	Din Rail	Din rail mounting
	Sensor	PT-100/3W / J / K (Factory set)	PT-100/2W/3W (Factory Set)	3W/POT Resistance
OUTPUT	Range	PT-100: 0 to 100/ 0 to 200/ 0 to 300/ 0 to 400 (Configurable)		
		4-20mA DC Signal (2 Wire System)		1Relay for zeroing facility 0-10V DC(4 / 5 / 6 Channel)
SPECIFICATION				
	Supply	24V DC Loop Powered		230V AC, ± 10% 50Hz

PROCESS CONTROL INSTRUMENT

8 CHANNEL SCANNER WITH RS-485 MODBUS CONNECTIVITY

8 Channel Indicator



MODEL		MS-1208
Dimension (HxWxD) mm		96 X 96 X 50
Panel Cutout (mm)		92 X 92
INPUT	Sensor	J/K/PT-100/2W/3W 0-10V DC /4-20mA DC/0-20mA (Configurable)
	Range	-999 to 9999 (For Analog I/P), J (0°C - 400°C), K (0°C - 1200°C) , PT-100 (-99.9°C - 400.0°C) (For Temperature I/P)
OUTPUT	Output 1	RS-485 MODBUS Communication (Optional)
SPECIFICATION		
Accuracy	Supply	±1% of FSD
		100-250V AC, 50/60 Hz

8 CHANNEL SCANNER WITH RS-485 MODBUS CONNECTIVITY

Upto 4 Relay Outputs, [Data Logging with Pen Drive compatibility \(USB\)](#)



MODEL		MS-1248U		MS-1248A
Dimension (HxWxD) mm		96 X 96 X 50		96 X 96 X 50
Panel Cutout (mm)		92 X 92		92 X 92
INPUT	Sensor	J/K/PT-100 - 2W / 3W (Configurable)		0 To 10V DC/4 To 20mA DC/ 0 To 20mA DC (Configurable)
	Range	J: 600°C, K: 1200°C , RTD PT 2W/3W : (-99°C to 400°C, -99.9°C to 400.0°C)		-999 To 9999 (Configurable)
OUTPUT	Output 1	4Relay with grouping facility		4Relay with grouping facility
	Output 2	RS 485 MODBUS Communication (Optional)		RS 485 MODBUS Communication (Optional)
	Output 3	USB Port, Pen drive compatible (Optional)		
SPECIFICATION				
Control Action		ON/OFF Action		
Accuracy		±1% of FSD		
Supply		100-250V AC/DC SMPS, 50/60 Hz		

PROCESS CONTROL INSTRUMENT

2

16 Channel Scanner with RS-485 & USB Port Facility

Upto 8 Relay Outputs, Data Logging with Pen Drive compatibility (USB)

NEW
LAUNCH



MODEL	MS-5716U	MS-5708
Dimension (HxWxD) mm	192 X 96 X 140	192 X 96 X 140
Panel Cutout (mm)	188 X 92	188 X 92
INPUT	Sensor	J/K/PT-100/2W/3W 0-10V DC /4-20mA DC/0-20mA (Configurable)
	Range	J (0°C - 400°C), K (0°C - 1200°C), PT-100 (-99.9°C - 400.0°C) (For Temperature I/P)
OUTPUT	Output 1	RS-485 MODBUS Communication (Optional)
	Output 2	8 Relay With Grouping Facility (Optional)
	Output 3	USB Port, Pen drive compatible (Optional)
SPECIFICATION	Accuracy	±1% of FSD
	Supply	100-250V AC, 50/60 Hz



PROCESS CONTROL INSTRUMENT FAULT ANNUNCIATOR

Upto 10 Fault Inputs & 3 Outputs



MODEL	FA-11
Dimension (HxWxD) mm	96 X 96 X 50
Panel Cutout (mm)	92 X 92
DISPLAY	16 Character by 2 line with GREEN light LCD display
INPUT	Input 10 Input potential free contact
OUTPUT	3 Relay 2 (No-C) Contact for audio and visual Alarm, 1C/O for machine Trip
SPECIFICATION	Supply 100-250V AC, 50/60 Hz
Indication	1) Audio Alarm 2) Visual Alarm 3) Machine Output
Note	RS 232 Serial pc interfacing to define soft/hard fault

DUAL PROCESS INDICATOR



MODEL	DPI-122
Dimension (HxWxD) mm	96 X 96 X 50
Panel Cutout (mm)	92 X 92
INPUT	Input 1 PT-100/3W / 4-20mA / 0-20mA / 0-10V DC (Any one factory set) Input 2 PT-100/3W / 4-20mA / 0-20mA / 0-10V DC (Any one factory set)
OUTPUT	Output 1 Relay / 2 Relay (Optional)
SPECIFICATION	Control Action ON-OFF
Supply	100-250V AC, 50/60 Hz

PROCESS CONTROL INSTRUMENT JUMBO DISPLAY INDICATORS Single & Double Side

2



MODEL		PIC-6004A/MSI-6004	PIC-3004A/MSI-3004/UTI-3004
Dimension (HxWxD) mm		160 X 380 X 50	130 X 235 X 50
INPUT	Sensor	0-10V DC/4-20mA / 0-20mA (Configurable) , Pulse Through Encoder/Proximity, J/K/PT-100 2W/3W (Configurable) RS-485 MODBUS , Humidity Sensor	
	Range	-999 to 9999, 0 to 9999 Count, J (0°C - 400°C), K (0°C - 1200°C) , PT-100 (-99.9°C - 400.0°C), 0 to 100% RH for Humidity	
OUTPUT	Output 1	1Relay / 2Relay for Alarm (Optional)	
	Output 2	24V DC Transmitter Supply for analog input (Optional)	
SPECIFICATION	Accuracy	±1% of FSD	
	Supply	100-250V AC, 50/60 Hz, 24V DC (Factory Set)	
Note		1) For analog input model : PIC 6004A / 3004A 2) For Proximity / Encoder Input Model : MSI 6004 / MSI 3004 3) For Temperature Input Model : UTI 3004	

LOAD CELL INDICATOR / CONTROLLER With Retransmission, RS-485 MODBUS & Excitation Facility



MODEL		LD-1006
Dimension (HxWxD) mm		96 X 96 X 100
Panel Cutout (mm)		92 X 92
INPUT	Sensor	0-20mV DC/0-30mV DC from loadcell
	Range	0 to 9999 (Configurable)
OUTPUT	Output 1	1Relay & 2Relay (Optional)
	Output 2	0-10V DC /4-20mA DC Retransmission (Optional) (Any One Factory set)
	Output 3	10V DC Transmitter Supply
	Output 4	RS-485 MODBUS (Optional)
SPECIFICATION	Accuracy	±1% of FSD
	Supply	230V AC ± 10% , 50Hz (Linear Power Supply)

3

TIMER

PROGRAMMABLE TIMER

Universal Range - 1Relay output



MODEL	DTT-1000	DTT-2000	DTT-3000	DTT-5000	DTT-56G
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 96 X 55	36 X 72 X 95	38 X 62 X 75
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92	32 X 68	31 X 54
Range	Range 1) 9999.59 hr/min. 2) 9999.59 min/sec 3) 999999 hr 4) 999999 Min 5) 999999 sec (Configurable)				
Input	Input Micro Switch/ Limit Switch / Proximity Switch / 230V AC (Factory Set)				
SPECIFICATION	Supply 230V AC $\pm$ 10%, 50Hz (Linear Power Supply)				

DIGITAL PRESETABLE TIMER

Multi range- Thumbwheel Setting



MODEL	MDT-1310F	MDT-2312F	MDT-4310	DIN-63	DIN-63C
Dimension (HxWxD) mm	96 X 96 X 50	72 X 72 X 60	48 X 48 X 102	76 X 27 X 116	76 X 27 X 116
Panel Cutout (mm)	92 X 92	68 X 68	44 X 44	Din rail mounting	Din rail mounting
Range	Range 999, 99.9, 9.99 Hour / Min / Sec (Configurable)				
Output	Output 1Relay, 2C/O, 5A, 230V AC, 12V DC SSR Output (Any one factory set)				
SPECIFICATION					
Operation Mode	Delayed ON / Delayed OFF (Configurable)				Cycle ON/ Cycle OFF
Counting Direction	UP / DOWN (Configurable)				
Memory	YES / NO (Configurable)				YES/NO (Configurable)
Supply	230V AC $\pm$ 10%, 50Hz (Linear Power Supply)			110-250V AC, 50/60 Hz	110-250V AC, 50/60 Hz

PROGRAMMABLE TIMER

Universal Range - 1Relay output



MODEL	UTR-1044	UTR-2044	UTR-444	UTR-413
Dimension (HxWxD) mm	96 X 96 X 50	72 X 72 X 85	48 X 48 X 95	48 X 48 X 95
Panel Cutout (mm)	92 X 92	68 X 68	44 X 44	44 X 44
INPUT				
Sensor	Micro Switch / Limit Switch / Proximity (Configurable)			
Range	99.99 / 999.9 / 9999 Sec/Min/Hrs (Configurable)			9.99 / 99.9 / 999 Sec/Min/Hrs (Configurable)
OUTPUT	1Relay, 2C/O, 5A , 230V AC, 12V DC SSR Output (Any one factory set)			
SPECIFICATION				
Operating Mode	Delayed ON/Delayed OFF/Cycle Mode (Configurable)			
Count Direction	Up / Down (Configurable)			
Memory	Yes / No (Configurable)			
Reset	Front & Back Both Reset Available			
Supply	100-250V AC, 50/60 Hz			

PROGRAMMABLE TIMER

UNIVERSAL TIMER - 2Relay output



MODEL	UTR-1244	UTR-2244	UTR-4244
Dimension (HxWxD) mm	96 X 96 X 50	72 X 72 X 85	48 X 48 X 95
Panel Cutout (mm)	92 X 92	68 X 68	44 X 44
INPUT			
Sensor	Micro Switch / Limit Switch / Proximity (Configurable)		
Range	99.99 / 999.9 / 9999 Sec/Min/Hrs (Configurable)		
OUTPUT	2Relay, 1C/O, 5A , 230V AC, 12V DC SSR Output (Any one factory set)		
SPECIFICATION			
Operating Mode	Forward - Reverse Mode / Cyclic Mode / Sequential Mode / Combination Mode (Configurable)		
Count Direction	Up / Down (Configurable)		
Memory	Yes / No (Configurable)		
Reset	Front & Back Both Reset Available		
Supply	100-250V AC, 50/60 Hz		

3

TIMER

UP TO 12 CHANNEL SEQUENTIAL TIMER

With Cascading Facility For 8 + 8 Outputs



MODEL	SQT-1044/SQT-1244 (Sequential Timer)	SQT-1044 (Combination Timer)
Dimension (HxWxD) mm	96 X 96 X 50	96 X 96 X 50
Panel Cutout (mm)	92 X 92	92 X 92
RANGE	Range 99.99 Sec / 999.9 Sec /99.59 Min / 999.9 Min / 99.59 Hrs /999.9 Hrs (Configurable)	
OUTPUT	8Relay/12Relay, 1C/O, 5A , 230V AC, 12V DC SSR Output (Any one factory set)	
SPECIFICATION	Operating Mode Delayed ON/Instant ON/Cycle Mode (Configurable) Count Direction Up / Down (Configurable) Memory Yes / No (Configurable) Reset Front & Back Both Reset Available Supply 100-250V AC, 50/60 Hz	
NOTE	Cascading facility available in SQT-1044 Sequential timer up to 1 + 3 parallel	

4 CHANNEL SEQUENTIAL TIMER



MODEL	MDT-1044	MDT-2044
Dimension (HxWxD) mm	96 X 96 X 50	72 X 72 X 85
Panel Cutout (mm)	92 X 92	92 X 92
RANGE	Range 99.99 / 999.9 / 9999 Sec/Min/Hrs (Configurable)	
OUTPUT	4Relay, 1C/O, 5A , 230V AC, 12V DC SSR Output (Any one factory set)	
SPECIFICATION	Operating Mode Delayed ON/Delayed OFF/Cycle Mode (Configurable) Count Direction Up / Down (Configurable) Memory Yes / No (Configurable) Reset Front & Back Both Reset Available Supply 100-250V AC, 50/60 Hz	
NOTE	SSR output is available on request	

COUNTER DIGITAL RPM INDICATOR

4



MODEL	RPM-1201	RPM-2201	RPM-3201	RPM-4201
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 96 X 67	48 X 48 X 102
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92	44 X 44
INPUT	Sensor NPN/PNP Proximity Switch (Configurable)			
	Range 4 - 5000 RPM			
SPECIFICATION				
	Supply	230V AC $\pm$ 10%, 50Hz	100-250V AC, 50/60 Hz	230V AC $\pm$ 10%, 50Hz

DIGITAL COUNT TOTALISER



MODEL	CT-1000	CT-2000	CT-3000	CT-5000	CT-56G
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 96 X 67	36 X 72 X 95	38 X 62 X 75
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92	32 X 68	31 X 54
INPUT	Sensor NPN/PNP Proximity Switch / Micro Switch (Configurable). 230V AC Pulse / Encoder (Any one factory set)				
	Range 0 To 999999 Count				
SPECIFICATION	Memory Non-Volatile Memory				
	Reset Manual Reset, Back Reset (Optional)				
	Supply 230V AC $\pm$ 10%, 50Hz				

COUNTER

DIGITAL PROGRAMMABLE COUNTER



MODEL	PC-1044D	PC-2044	PC-444	PC-1006D
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 85	48 X 48 X 95	96 X 96 X 42
Panel Cutout (mm)	92 X 92	68 X 68	44 X 44	92 X 92
INPUT	Sensor			Encoder (Factory Set)
	Range			0 - 999999 Count
OUTPUT	1Relay, 1C/O, 5A , 230V AC, 12V DC SSR Output (Any one factory set)			
SPECIFICATION	Count Direction	Up / Down (Configurable)		
	Memory	Yes / No (Configurable)		
	Reset	Auto / Manual Reset / Reset at back		
	Supply	230V AC $\pm$ 10%, 50Hz	100-250V AC, 50/60 Hz	230V AC $\pm$ 10%, 50Hz
Note	Double set point & Scale factor Available on customer request			

DIGITAL PRESETABLE COUNTER

With Thumbwheel Setting



MODEL		TWS-1400F	TWS-2500F
Dimension (HxWxD) mm		96 X 96 X 50	72 X 72 X 85
Panel Cutout (mm)		92 X 92	68 X 68
INPUT	Sensor	NPN/PNP Proximity switch / Micro Switch (Configurable) / 230V AC Pulse / Encoder (Factory Set)	
	Range	0 To 9999	
OUTPUT		1Relay, 2C/O, 5A , 230V AC, 12V DC SSR Output (Any one factory set)	
SPECIFICATION	Operating Mode	Delayed ON/Delayed OFF (Configurable)	
	Count Direction	Up / Down (Configurable)	
	Memory	Yes / No (Configurable)	
	Speed Selection	Low, Medium, Fast (Configurable)	
	Supply	100-250V AC, 50/60 Hz	

COUNTER DIGITAL BATCH COUNTER

4



MODEL	BC-1046D	BC-2046	BC-445
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 48 X 95
Panel Cutout (mm)	92 X 92	68 X 68	44 X 44
INPUT	Sensor	NPN/PNP Proximity Switch / Micro Switch (Configurable) / 230V AC Pulse (Factory Set)	
RANGE	Range	Upper display range (0 -999999 Count) Lower display range (0 -9999)	
OUTPUT		1Relay+Buzzer / SSR + Buzzer	
SPECIFICATION	Memory	Non-Volatile Memory	
	Reset	Auto / Manual reset / back reset	
	Supply	230V AC $\pm$ 10%, 50Hz	100-250V AC, 50/60 Hz SMPS

DIGITAL LENGTH COUNTER With Proximity / Dual Channel Encoder Input



MODEL	LC-1046D	LC-2046	LC-3006	LC-445
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 96 X 120	48 X 48 X 95
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92	44 X 44
INPUT	Sensor	NPN/PNP Proximity Switch (Configurable) / Encoder (Factory set)		
RANGE		0-99999.9 / 0-999999 Meter (Configurable)		
OUTPUT		1Relay, 1C/O, 5A , 230V AC, 12V DC SSR Output (Any one factory set)		
SPECIFICATION	MPM Range	999.9 MPM		
	Diameter	0-9999.99 MM		
	Memory	Non-Volatile Memory		
	Reset	Auto/Manual reset facility & front and back reset facility		
	Supply	230V AC $\pm$ 10%, 50Hz	100-250V AC, 50/60 Hz	

COUNTER SPEED / RATIO INDICATOR



MODEL		MPM-1044	MPM-2044/MSI-2044
Dimension (HxWxD) mm		96 X 96 X 50	72 X 72 X 85
Panel Cutout (mm)		92 X 92	68 X 68
INPUT	Sensor	NPN/PNP Proximity Switch (Configurable), 2 Proximity input (Stretch Ratio Indicator)	
	Range	0 to 9999 or 0 to 999.9 MPM (Factory set), 0 to 9999 RPM	
OUTPUT		1Relay on RPM/MPM (Factory Set) & Retransmission Output (4-20mA/0-10V DC) (Factory set)	
SPECIFICATION			
		Diameter Range 0 to 999.9 MM (Only for MPM / Stretch Ratio MPM)	
		Accuracy ±1% of FSD	
		Supply 100-250V AC, 50/60 Hz	

PROGRAMMABLE COUNTER Counter + Rpm



MODEL		MMC-1046RD	MMC-2046R
Dimension (HxWxD) mm		96 X 96 X 42	72 X 72 X 60
Panel Cutout (mm)		92 X 92	68 X 68
INPUT	Sensor	NPN/PNP Proximity switch / Micro Switch (Configurable) / 230V AC Pulse(Factory Set)	
	Range	Upper Display Range: (0-999999 Count) , Lower Display Range: (0-9999 RPM)	
OUTPUT		1Relay, 1C/O, 5A , 230V AC, 12V DC SSR Output (Any one factory set)	
SPECIFICATION			
		Memory Non-Volatile Memory	
		Reset Auto / Manual Reset / Back reset	
		Supply 230V AC ± 10%, 50Hz	

COUNTER COLOR MARK SENSOR Multi-Colour Sensing

4



MODEL	CMS-01X	CMS-02	CMS-03
Dimension (HxWxD) mm	65 X 90 X 35	65 X 90 X 35	65 X 90 X 35
POWER SUPPLY	12V DC TO 24V DC	12V DC TO 24V DC	12V DC TO 24V DC
SCANNING DISTANCE	4 To 8 MM	10 To 15 MM	10 To 15 MM
Light Source	Red + Green	White	Red + Green + Blue
CONNECTION	Red Wire Black Wire Green Wire Yellow Wire	Supply 12V DC to 24V DC GND PNP Output NPN Output	

PHOTO ELECTRIC CONTROLLERS For Packaging Machine

For Mechanical
Machine



For
Semi/Fully Pneumatic
Machine



MODEL	MPC-5062	MPC-5264
Dimension (HxWxD) mm	192 X 96 X 100	192 X 96 X 100
Panel Cutout (mm)	188 X 92	188 X 92
INPUT	Input 1 Input 2	1 OR 2 NPN/PNP Proximity Switch (Factory Set) Color Mark Sensor, Fork Sensor, Batch Cutter Proxy
OUTPUT	Output 1 Output 2 Output 3	Clutch & Break - 24V DC, 2A Max. Air Filling Relay, 1C/O, 5A, 230V AC Batch Cutter Relay, 1C/O, 5A , 230V AC
SPECIFICATION	Memory Reset	Non-Volatile Memory Manual Reset
Supply	110V AC /230V AC $\pm$ 10%, 50Hz (Factory Set)	230V AC $\pm$ 10%, 50Hz

COUNTER CLUTCH BREAK CONTROLLER

For Packaging Machine Application



MODEL		MC-1003	MMC-1046T
Dimension (HxWxD) mm		96 X 96 X 50	96 X 96 X 50
Panel Cutout (mm)		92 X 92	68 X 68
INPUT	Input 1	NPN Proxy for clutch	
	Input 2	NPN Color mark sensor (CMS)	
	Input 3	Micro Switch	
RANGE		Clutch ON Time : 0-99.99 Sec. : 0-99.99 Milisec	0-99.99 Milisec
OUTPUT	Output 1	For Clutch	For Clutch
	Output 2	For Inching	For Inching
	Output 3	For Batch Counter	
SPECIFICATION	Reset	Front Reset	
	Memory	Non-Volatile Memory	
	Supply	100-250V AC, 50/60 Hz	

PROGRAMMABLE JUMBO DISPLAY



MODEL		PC-6006
Dimension (HxWxD) mm		165 X 570 X 50
Display		Single Display: 7 Segment, 6 Digit, 4" Red Led Display
INPUT	Sensor	NPN/PNP Proximity switch (Configurable) & Micro Switch
	Range	0-999999 Count
OUTPUT	Output	1Relay, 1C/O, 5A , 230V AC, 12V DC SSR Output (Optional)
SPECIFICATION	Memory	Non-Volatile Memory
	Reset	Auto / Manual Reset / Back reset
	Supply	230V AC $\pm$ 10%, 50Hz
Note		RS-485 input available as per request

COUNTER

PROGRAMMABLE JUMBO LENGTH COUNTER

4



MODEL		PIC-9004
Dimension (HxWxD) mm		160 X 375 X 70
Display		Upper: 7 Segment, 6 Digit, 2.25" Red Led Display - Total Meters Lower: 7 Segment, 4 Digit, 2.25" Green Led Display - Meter Per Minute
INPUT	Sensor	NPN/PNP Proximity Switch (Configurable) / Encoder (Factory set)
RANGE		0-99999.9 / 0-999999 Meter (Configurable)
OUTPUT		1Relay, 1C/O, 5A , 230V AC, 12V DC SSR Output (Any one factory set)
SPECIFICATION		
	MPM Range	999.9 MPM
	Diameter	0-9999.99 MM
	Memory	Non-Volatile Memory
	Reset	Auto/Manual reset facility & front and back reset facility
	Supply	100-250V AC, 50/60 Hz
	Note	RS-485 input available as per request

5

ENERGY

SINGLE PHASE AC PANEL METER

VOLT / AMP meter



MODEL	AV-14/11V	AV-24/21V	AV-34/31V	AV-41A/41V
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 96 X 55	48 X 48 X 70
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92	44 X 44
INPUT	Ampere (AC)	5A AC Direct		
	CT Ratio	Primary: 5/5 to 4000/5A AC		
	Voltage (AC)	0 to 500V AC		
SPECIFICATION	Accuracy	Class 1.0		
	Power Supply	230V AC $\pm 10\%$, 50Hz		
	Note	30A AC Direct CT Available at back side		

SINGLE PHASE AC PANEL METER

VOLT + AMP meter



MODEL	AV-12	AV-22	AV-33
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 96 X 55
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92
INPUT	Current Input	CT Ratio selection upto 2000/5 Amp	
	Voltage Input	0 to 500V AC	
SPECIFICATION	Accuracy	Class 1.0	
	Power Supply	230V AC $\pm 10\%$, 50Hz	
	Note	30A AC Direct CT Available at back side	

ENERGY

SINGLE PHASE DC PANEL METER

VOLT / AMP Meter

5



MODEL	AV-14DA/14DV	AV-24DA/DV	AV-34DA/34DV	AV-41DV
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 96 X 55	48 X 48 X 70
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92	44 X 44
INPUT	Input	75mV DC through external shunt		
	Range	0 to 9999 Ampere DC		
SPECIFICATION	Voltage (DC)	19.99V DC/ 99.99V DC/ 199.9V DC / 750V DC (Factory set)		
	Accuracy	Class 1.0		
	Power Supply	230V AC $\pm 10\%$, 50Hz		
	Note	0 to 5A DC, 10A DC, 20A DC Direct through shunt is available in model AV-14DZ,24DZ,34DZ		

SINGLE PHASE POWER FACTOR METER



MODEL	PF-11
Dimension (HxWxD) mm	96 X 96 X 42
Panel Cutout (mm)	92 X 92
INPUT	Input Signal
	1Ø 2 Wire, 230V AC, 50Hz, 5A AC
SPECIFICATION	Accuracy
	Class 1.0
	Power Supply
	230V AC $\pm 10\%$, 50Hz

ENERGY

3 PHASE PANEL METER

AVF Meter



MODEL	AVF-19N
Dimension (HxWxD) mm	96 X 96 X 50
Panel Cutout (mm)	92 X 92
INPUT	Input Signal Voltage Current
PARAMETER	3Ø 4 Wire / 3Ø 3 Wire / 1Ø 2 Wire 300V AC (L-N) / 520V AC (P-P) 5/5A to 6000/5A CT Ratio Selectable
SPECIFICATION	Voltage (P-P), Voltage (P-N), Average Voltage (P-P), Average Current (R,Y & B), Average Voltage (P-N) Line Current (R,Y & B), Frequency, RPM, Load Hour, No Load Hour
Accuracy	Class 1.0
Power Supply	230V AC $\pm$ 10%, 50Hz

3 PHASE PANEL METER

VOLT/AMP meter



NEW
LAUNCH



MODEL	VOLT-19N	AMP-23	AMP-19N
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	96 X 96 X 42
Panel Cutout (mm)	92 X 92	68 X 68	92 X 92
PARAMETERS	Input Signal Voltage (AC) Ampere (AC)	3Ø / 3 Wire 0 to 6000/5A AC	3Ø / 3 Wire 0 to 6000/5A AC
SPECIFICATION	Accuracy Power Supply	Class 1.0 230V AC $\pm$ 10%, 50Hz	Class 1.0 230V AC $\pm$ 10%, 50Hz

3 PHASE ENERGY & POWER METER

NEW
LAUNCH

MODEL	EPM-13N	EM-10	EM-13N
Dimension (HxWxD) mm	96 X 96 X 50	96 X 96 X 50	96 X 96 X 50
Panel Cutout (mm)	92 X 92	92 X 92	92 X 92
INPUT	Input Signal 3Ø 4 Wire Voltage 230V AC Current 5/5 to 4000/5A AC		
SPECIFICATION	Reset By front Keypad Measuring Range 0.000 to 9999 kW (Active power) 0 to 999999 kWh (Active energy) Accuracy Class 1.0 Power Supply 230V AC ± 10%, 50Hz		
Note	To see CT Ratio Press CT key in EM-13N, 1 Relay on KW available in EPM-13N		

SINGLE PHASE PANEL METER

Watt Meter & Frequency Meter



MODEL	WM-11	FRQ-11	FRQ-31
Dimension (HxWxD) mm	96 X 96 X 42	96 X 96 X 42	48 X 96 X 55
Panel Cutout (mm)	92 X 92	92 X 92	44 X 92
INPUT	Input Signal 1Ø 2 Wire Voltage 300V AC (L-N) Current 5 - 50A CT Selection Secondary Function 5A/1A (Configurable)		
SPECIFICATION	Measuring Range 0 to 1250 Watts Accuracy Class 1.0 Power Supply 230V AC ± 10%, 50Hz		
Note	Also available in 199.9 Watt Range 1Relay on KW is available in WM-11		

ENERGY

MULTI FUNCTION METER

With RS-485 MODBUS



MODEL	AVH-14N	AVH-13N	PM-11H
Dimension (HxWxD) mm	96 X 96 X 50	96 X 96 X 50	96 X 96 X 50
Panel Cutout (mm)	92 X 92	92 X 92	92 X 92
INPUT			
Input Signal	3Ø 3 Wire / 3Ø 4Wire	3Ø 4Wire	1Ø 2Wire
Voltage	300V AC (L-N) / 520V AC (P-P)	300V AC (L-N) / 520V AC (P-P)	20-300V AC
Current	5/5A to 6000/5A CT Ratio Selectable	5/5A to 6000/5A CT Ratio Selectable	5/5A to 400/5A CT Ratio Selectable
PARAMETER			
Voltage (L-L)	50 - 500V AC	50 - 500V AC	
Voltage (L-N)	30 - 300V AC	30 - 300V AC	20 - 300V AC
Current (~A)	5/5A to 6000/5A CT Ratio Selectable	5/5A to 6000/5A CT Ratio Selectable	5/5A to 400/5A CT Ratio Selectable
KW Total	0.000 - 9999 KW	0.000 - 9999 KW	0.000 - 9999W
KW Per Phase	0.000 - 9999 KW		
KWH Total	000.000 - 999999 KWH	000.000 - 999999 KWH	0.000 - 999999KWH
Power Factor Average (PF)	0.100 - 1.000	0.100 - 1.000	0.100 - 1.000
Power Factor per phase (PF)	0.100 - 1.000		
KVA Total	0.000 - 9999 KVA	0.000 - 9999 KVA	0.000 - 9999 KVA
Frequency (Hz)	45 - 65 Hz	45 - 65 Hz	45 - 65 Hz
KVAr Total	0.000 - 9999 KVAr		
Load hours	9999.59 Hrs/Min.		
No load hours	9999.59 Hrs/Min.		
RPM	1500 RPM		
COMMUNICATION	RS-485 MODBUS (Optional)		
SPECIFICATION			
Accuracy	Class 1.0		
Power Supply	230V AC ±10%, 50Hz		

ENERGY PROTECTION DEVICE - 3 PHASE

5



MODEL	MPD-13N	MPD-19N
Dimension (HxWxD) mm	96 X 96 X 50	96 X 96 X 50
Panel Cutout (mm)	92 X 92	92 X 92
INPUT		
Input Signal	3Ø 4 Wire	3Ø 4 Wire
Voltage		0 - 415V AC (P-P)
Current	5 - 2000A	5 - 2000A
PARAMETER		
	Over Current, Under Current, Single Phase Unbalance, Short Circuit, Lock Rotor Point	Over Current, Under Current, Single Phase, Unbalance, Short Circuit, Lock Rotor Point, Over Voltage, Under Voltage
SPECIFICATION		
Accuracy	Class 1.0	
Power Supply	230V AC $\pm$ 10%, 50Hz	
Note:	MPD-13N & MPD-19N is also available in 415V AC $\pm$ 10%, 50Hz Power Supply (ON Request)	

SINGLE PHASE - CURRENT RELAYS



MODEL	CC-11	CC-12
Dimension (HxWxD) mm	96 X 96 X 50	96 X 96 X 50
Panel Cutout (mm)	92 X 92	92 X 92
INPUT		
Input Signal	1Ø 2Wire	
Current	5 - 1600A	
PARAMETER		
Tripping Facility	High / Low / Inband / Outband / Absolute Low / Absolute Outband Alarm (Configurable)	
Accuracy	$\pm$ 1% of FSD	
Power Supply	100-250V AC/DC, 50/60 Hz, SMPS	



MODEL		PM-11DC
Dimension (HxWxD) mm		96 X 96 X 50
Panel Cutout (mm)		92 X 92
PARAMETER	Voltage	0-200V DC
	Ampere	0-999A DC (75mV DC through external shunt)
	Watt	0-180.0 Kw
	Kwh	0-999999 Kwh
SPECIFICATION		
Accuracy		Class 1.0
Power Supply		230V AC $\pm$ 10%, 50Hz

AC-DC TESTING PANEL



AC DC-15A (RS-485 MODBUS Compatible)

MODEL		AC POWER METER	DC POWER METER
Dimension (HxWxD) mm		96 X 96 X 50	96 X 96 X 50
Panel Cutout (mm)		92 X 92	92 X 92
PARAMETER	Voltage	10-300V AC	5-150V DC
	Ampere	10mA-5.000 Amp AC	10mA-5.000 Amp AC
	Watt	0-1500 Watt	0-750 Watt
	PF	0-1.000 PF	
	Efficiency		0-100.0%
SPECIFICATION			
Accuracy		Class 1.0	
Power Supply		230V AC $\pm$ 10%, 50Hz	



TD-13B
2.0 HP, 3.0 HP



TD-13B
0.5 HP, 1.0 HP



TD-13M
0.5 HP, 1.0 HP, 2.0 HP, 3.0 HP



TD-144
0.5 HP, 2.0 HP
1.0 HP, 3.0 HP

DESCRIPTION	MODEL	W X H X D (mm)	RANGE
Panel Mounting Type	TD-144	140X140X190	0.5, 1, 2 HP
Wall Mounting Mould Type	TD-13M	170X235X85	0.5, 1, HP
	TD-13M	210X285X110	2, 3 HP
Wall Mounting Panel Type	TD-13B	165X240X95	0.5, 1 HP
	TD-13B	230X300X105	2, 3 HP
Panel Mounting Type	TD-11	96 X 96 X 110	1 HP

OTHER PRODUCTS

SINGLE PHASE THYRISTOR BASED D.C DRIVE

- SOFT START (QUICK START POSSIBLE)
- ARMATURE VOLTAGE : 200V DC
- MIN / STOP FACILITY (OPTIONAL)
- FIELD VOLTAGE 200V DC, TRIP INDICATION BY LED, OVER LOAD, HIGH INPUT CURRENT & FIELD VOLTAGE FAILURE PROTECTION
- 2 SPEED VARIATION (OPTIONAL), SPEED SETTING BY POT
- UPTO 5 HP DC DRIVE AVAILABLE

7 OUR NICHE WE SPECIALIZE IN CUSTOMIZED APPLICATIONS

PRODUCT MODEL	DESCRIPTION	
FRI-100	Flame Proof Indicator Input: Temperature sensor/ Analog type / Proximity sensor	
MHC-1101	Single Display Humidity Controller Size: 96x96x50 mm- Panel mount Input: Humidity sensor, Output: 1R2C/O	
MHT-9044	Jumbo Display (Humidity + Temperature) Size: 375x160x70 mm Input: Humidity Sensor + PT-100/3W, Output: 2 Relay (Optional)	
MDT-3006	Jumping Timer (For Printing Machine) Size: 48x96x120 mm- Panel mount Input: 2 Proximity sensor, Output: 2Relay or 2SSR (Factory set)	
LRO-1203	LRO Controller For Hydraulic Shearing Machine Size: 96x96x55 mm- Panel mount Input: Limit switch(230V AC Pulse), Counter switch (230V AC Pulse) Output: R1 for Rack Down, R2 for Rack Up to set Rack Angle, R3 for Counter	
DRO-1102	DRO Controller For Hydraulic Shearing Machine Size: 96x96x55 mm- Panel mount Input: Bi-Directional NPN Encoder, 230V AC Pulse for Home position & lock reading Output: 2 Relay, 230V AC @ 5Amp For Forward & Reverse Motor	



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