

A large industrial facility, possibly a refinery or chemical plant, with numerous storage tanks and distillation columns, illuminated at night against a dark sky and a body of water in the background.

Temperature Controller

Process Control Instruments

Programmable Timers

Programmable Counters

Power & Energy Meters

Protection Devices



PRODUCT CATALOG



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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/Pt100 2Wire or 3Wire (Factory Set)				
	Range J (0°C to 400°C OR 0°C to 600°C), K (0°C to 1200°C), Pt100 2Wire or 3Wire (-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 (0°C to 1600°C) & S (0°C to 1800°C) are also available as per customer's request.				

DIGITAL TEMPERATURE CONTROLLERS (Fixed Input)



CHILLER CONTROLLER



MODEL	TC-19	TC-29	TC-49	CC-5010 / 5020
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 48 X 70	40 X 80 X 67
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92	29X 71
INPUT	Sensor J/ K/ R/ S / Pt100 2Wire or 3Wire (Factory Set)			NTC (Thermistor)
	Range J (0°C to 400°C or 0°C to 600°C), K (0°C to 1200°C), Pt100 2Wire or 3Wire (0°C to 400°C, -50.0°C to 200.0°C)			(-40°C to 90°C) (With Defrost Facility)
OUTPUT	1Relay 1C/O 5A@ (resistive load)230V AC or SSR (Factory set)			CC-5010 : 1Relay 1C/O 10A@(Resistive Load) 230V AC CC-5020 : 1Relay 1C/O 20A@(Resistive Load) 230V AC
	1Relay 1C/O 5A@(resistive load)230V AC & SSR 12V max 20mA DC (Parallel to Relay)			ON-OFF (Cooling Mode)
SPECIFICATION	Control Action Time Proportional / ON-OFF (Factory Set)			ON-OFF (Cooling Mode)
	Accuracy ±1% of FSD			±1% of FSD
Supply	230V AC ± 10%, 50Hz			100-250V AC, 50/60 Hz
Note	In CC-5020 2 nd Relay for alarm purpose available as per requirement.			

TEMPERATURE TEMPERATURE CONTROLLER

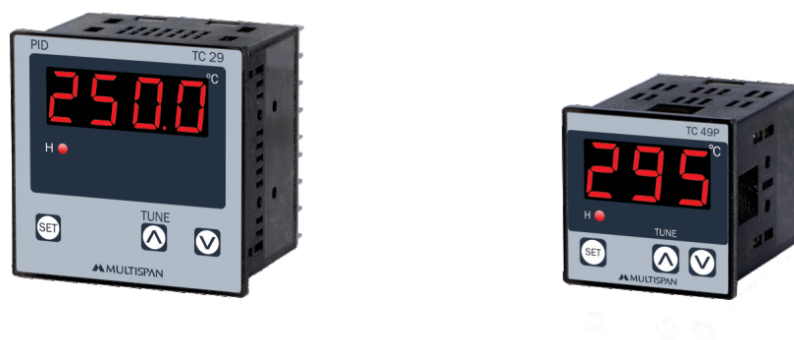
Fixed Input & Fixed Action, Push to set facility



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/ Pt100 2Wire or 3Wire (Factory Set)
	Range		J (0°C to 400°C), K (0°C to 1200°C), R (0°C to 1600°C)
OUTPUT	Pt100 2Wire or 3Wire		J (0°C to 400°C), K (0°C to 1200°C)
	(0°C to 400°C, 0.0°C to 199.9°C or -50.0°C to 199.9°C)		Pt100 2Wire or 3Wire (0°C to 400°C, 0.0 or -50.0°C to 199.9°C)
SPECIFICATION	1Relay 1C/O 5A@(resistive load)230V AC or SSR 12V max 20mA DC (Factory set)		
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/ Pt100 2Wire or 3Wire (Factory Set)	J/ K (Configurable) or Pt100 2Wire or 3Wire (Factory Set)
	Range	J (0°C to 400°C or 0°C to 600°C), K (0°C to 1200°C), Pt100 2Wire or 3Wire (0°C to 400°C, -50.0°C to 200.0°C)	J (0°C to 400°C or 0°C to 600°C), K (0°C to 999°C), Pt100 2Wire or 3Wire (0°C to 400°C, -50°C to 400°C)
OUTPUT		1Relay 1C/O 5A@(resistive load)230V AC & SSR 12V max 20mA DC (Parallel to Relay)	
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

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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/ Pt100 2Wire or 3Wire (Configurable)		
	Range J (0°C to 600°C) Pt100 2Wire or 3Wire (-99°C to 400°C) K (0°C to 999°C)		
OUTPUT	1Relay 1C/O 5A@(resistive load)230V AC & SSR 12V max 20mA DC (Parallel to Relay) (1 Set point)		
SPECIFICATION	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/ Pt100 2Wire or 3Wire (Configurable)		
	Range J (0°C to 600°C) Pt100 2Wire or 3Wire (-99°C to 400°C, -99.9°C to 400.0°C) K (0°C to 1200°C)		
OUTPUT	1Relay 1C/O 5A@(resistive load)230V AC & SSR 12V max 20mA DC (Parallel to Relay) (1 Set point)		
SPECIFICATION	Control Action PID / ON-OFF (Configurable)		
	Accuracy ±1% of FSD		
	Supply 100-250V AC, 50/60 Hz		

TEMPERATURE TEMPERATURE CONTROLLER

Double Display, Autotune PID



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 Range J/K/Pt100 2Wire or 3Wire (Configurable) J (0°C to 600°C), K (0°C to 1200°C), Pt100 2Wire or 3Wire (-99°C to 400°C, -99.9°C to 400.0°C)			
OUTPUT	1Relay 1C/O 5A@(resistive load)230V AC & SSR 12V max 20mA DC (Parallel to Relay) (1 Set point)			
SPECIFICATION	Control Action Accuracy Supply PID / ON-OFF (Configurable) ±1% of FSD 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 Range J/ K/ Pt100 2Wire or 3Wire (Configurable) J (0°C to 600°C), K (0°C to 1200°C), Pt100 2Wire or 3Wire (-99°C to 400°C, -99.9°C to 400.0°C)		
OUTPUT	1Relay 1C/O 5A@(resistive load)230V AC & SSR 12V max 20mA DC (Parallel to Relay) (1 Set point)		
SPECIFICATION	Control Action Accuracy Supply TP/ ON-OFF (Configurable) ±1% of FSD 100-250V AC, 50/60 Hz		

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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 / Pt100 2Wire or 3Wire (Configurable) Range J (0°C to 600°C), K (0°C to 1200°C), Pt100 2Wire or 3Wire (-99°C to 400°C, -99.9°C to 400.0°C)		
OUTPUT	2 output : (SSR parallel to 1 st Relay) + 1Relay or 1SSR (2Relay 1C/O 5A@(resistive load)230V AC & SSR 12V max 20mA DC) (Heat + Cool)		
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 / Pt100 2Wire or 3Wire (Configurable) Range J (0°C to 600°C), K (0°C to 1200°C), Pt100 2Wire or 3Wire (-99°C to 400°C, -99.9°C to 400.0°C)			
OUTPUT	2 output : (SSR parallel to 1 st Relay) + 1Relay or 1SSR (2Relay 1C/O 5A@(resistive load)230V AC & SSR 12V max 20mA DC)			
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/ Pt100 2Wire or 3Wire (Factory Set)
	Range	J (0°C to 600°C), K (0°C to 1200°C), Pt100 2Wire or 3Wire (-99°C to 400°C, 0.0°C to 400.0°C)
OUTPUT SPECIFICATION		S-1: Pt100 2Wire or 3Wire (RTD) S-2: Humidity Sensor Pt100 2Wire or 3Wire (-99°C to 400°C) Humidity Sensor
		1 st Relay for Temperature and 2 nd Relay for Humidity.
	Control Action	ON-OFF
	Accuracy	±1% of FSD
	Supply	100-250V AC, 50/60 Hz

TEMPERATURE CONTROLLER - UNIVERSAL Double Display PID Controller - 3 Relay



MODEL	UTC-4203
Dimension (HxWxD) mm	48 X 48 X 95
Panel Cutout (mm)	44 X 44
INPUT	Sensor
	Range
OUTPUT SPECIFICATION	J / K / Pt100 2Wire or 3Wire (Configurable) J (0°C to 600°C), K (0°C to 1200°C) Pt100 2Wire or 3Wire (-99°C to 400°C, -99.9°C to 400.0°C)
	3Relay 1C/O 5A@(resistive load)230V AC or 3SSR 12V max 20mA DC (Factory Set)(3 Set point)
	Control Action
	Accuracy
	Supply

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TEMPERATURE

UNIVERSAL PROGRAMMABLE CONTROLLER

Auto Tune PID, RS-485 MODBUS Facility



MODEL	PTC L12AR-M1	PTC-4202A-M1	UTC-4201A
Dimension (HxWxD) mm	96 X 96 X 50	48 X 48 X 95	48 X 48 X 95
Panel Cutout (mm)	92 X 92	44 X 44	44 X 44
INPUT	Input		J / K / Pt100 2Wire or 3Wire
	Range		J (0°C to 600°C), K (0°C to 1200°C), Pt100 2Wire or 3Wire (-99.9°C TO 400.0°C, -99.9°C TO 400.0°C) For Temperature Sensor (-999 To 9999 for Analog input)
OUTPUT	Output 1	1Relay 1C/O 5A@(resistive load)230V AC or SSR 12V max 20mA DC (Factory Set)	-----
	Output 2	1Relay 1C/O 5A@(resistive load)230V AC or SSR 12V max 20mA DC (Factory Set)	1Relay or SSR output (Factory set)
	Output 3	0-10V DC/4-20mA DC Controlling/Retransmission Output (Factory Set)	Analog output
	PC Communication	RS-485 MODBUS Communication	-----
SPECIFICATION	Control Action	PID / ON-OFF (Configurable)	
	Accuracy	±1% of FSD	
	Supply	100-250V AC, 50/60 Hz	

TEMPERATURE CONTROLLER - UNIVERSAL AMPERE INDICATION



MODEL	RTC 223PX (With CT Module)	PID-4203C (With CT Module)
Dimension (HxWxD) mm	72 X 72 X 50	48 X 48 X 95
Panel Cutout (mm)	68 X 68	44 X 44
INPUT	Sensor	J / K / PT-100 (Configurable)
	Range	J (0°C to 600°C), K (0°C to 1200°C)
OUTPUT	CT Input	CT Module (3 CT-30Amp Each)
		3 Relay 1C/O 5A@(resistive load)230V AC or SSR 12V max 20mA DC (SSR parallel to 1 st Relay) (Factory Set)(3 Set point)
SPECIFICATION	Control Action	PID / TP / ON-OFF (Configurable)
	Accuracy	±1% of FSD
	Supply	100-250V AC, 50/60 Hz

PROCESS CONTROL INSTRUMENT PROCESS INDICATORS

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	Inputs	0-10V DC/ 0-20mA DC/ 4-20mA DC (Configurable)				
	Range	-999 to 9999 (Configurable)				
RESOLUTION	Display resolution	0.000/00.00/000.0/0000 (Configurable)				
FEATURES	Feature	Correction Factor, Offset, Filtrations Rate, Reverse Scaling				
SUPPLY	Supply	100-250V AC, 50/60Hz				

PROCESS CONTROLLER With Relay & Excitation Facility



MODEL	PIC-31	PIC-38 (0.8" Display)
Dimension (HxWxD) mm	48 X 96 X 120	48 X 96 X 120
Panel Cutout (mm)	44 X 92	44 X 92
INPUT	Inputs	0 To 10V DC/ 0 To 20mA/ 4 To 20mA DC (Configurable)
	Range	-999 To 9999 (Configurable)
OUTPUT	Output 1	1Relay 5A@(resistive load)230V AC
	Output 2	24V@30mA 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	Inputs	0 To 10V DC/ 4 To 20mA DC/ 0 To 20mA DC (Configurable)	
	Range	-999 to 9999 (Configurable)	
OUTPUT	Output 1	1 st Relay, 2 nd (Optional)	
	Output 2	24V@30mA DC transmitter Supply (Optional)	
	Output 3	4-20mA / 0-10mA Retransmission Output (Factory Set)(Optional)	
		2Relay 1 C/O 5A@(resistive load)230V AC 24V@30mA DC Transmitter Supply	
SPECIFICATION	Operating Mode	High / Low / Inband / Outband / Absolute Low / Absolute Outband Alarm (Configurable)	
	Accuracy	±1% of FSD	
	Supply	100-250V AC 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-3016D	16 X 2 LCD Display
Dimension (HxWxD) mm		96 X 96 X 50	48 X 96 X 67	
Panel Cutout (mm)		92 X 92	44 X 92	
INPUT	Inputs	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@30mA DC Transmitter Supply	24V@30mA DC Transmitter Supply	
SPECIFICATION	Output 3	1Relay / 2Relay 5A@(resistive load)230V AC (On Total Flow or Flow Rate)		
	Output 4	RS-485 MODBUS Communication	RS-485 MODBUS Communication	
	Output 5	RS-232 PC or Printer Interface		
	Accuracy	±1% of FSD		
	Supply	100-250V AC SMPS, 50/60 Hz or 24V DC (Factory set)		
	Note	All Outputs are optional		

PROCESS CONTROL INSTRUMENT SIGNAL ISOLATOR & CURRENT TRANSDUCER



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
	Input Signal	0-20mA DC /4-20mA DC / 0-10V DC / -5 To 5V DC / 0 To 300V DC / 0 To 300V AC Resistance 2Wire or 3Wire Port / Any range in mV DC (Factory Set)	0 To 5A AC, 0 To 10A AC (Factory Set)
	Sensor	J/K/PT-100 2Wire or 3Wire (Factory set)	
OUTPUT		0-20mA DC /4-20mA DC / 0-10V DC (Single or Dual Output) (Factory Set)	Single Output (0-20mA DC /4-20mA DC / 0-10V DC) (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
	Sensor	PT-100 3Wire / J / K (Factory set)	PT-100/2Wire or 3Wire (Factory Set)
OUTPUT	Range	PT-100: 0 to 100/ 0 to 200/ 0 to 300/ 0 to 400 (Configurable)	3Wire /POT Resistance
		4-20mA DC Signal (2 Wire System)	1Relay for zeroing facility 0-10V DC(4 /5 / 6 Channel)
	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	MS-1208A
Dimension (HxWxD) mm		96 X 96 X 50	96 X 96 X 50
Panel Cutout (mm)		92 X 92	92 X 92
INPUT	Inputs	J / K / PT-100 2Wire or 3Wire (Configurable)	0-10V DC / 4-20mA DC / 0-20mA DC (Analog Input)(Configurable)
	Range	J (0°C - 400°C), K (0°C - 1200°C) , PT-100 2Wire or 3Wire (-99.9°C - 400.0°C) (For Temperature I/P)	(-999 to 9999 For Analog I/P)
OUTPUT		RS-485 MODBUS Communication (Optional)	
SPECIFICATION	Accuracy	±1% of FSD	
	Supply	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	Inputs	J / K / PT-100 2Wire or 3Wire (Configurable)	Analog Input (0 To 10V DC/4 To 20mA DC/ 0 To 20mA DC) (Configurable)
	Range	J (0°C to 600°C) K (0°C to 1200°C) RTD PT 2Wire or 3Wire (-99.9°C to 400.0°C, -99.9°C to 400.0°C)	-999 To 9999 (Configurable)
OUTPUT		Output 1 4Relay with grouping facility Output 2 RS 485 MOBUS Communication (Optional) Output 3 USB Port with Data logging facility(Optional)	4Relay with grouping facility RS 485 MOBUS Communication (Optional)
SPECIFICATION	Control Action	ON/OFF	
	Accuracy	±1% of FSD	
	Supply	100-250V AC/DC SMPS, 50/60 Hz	

PROCESS CONTROL INSTRUMENT

2

16 CHANNEL SCANNER WITH RS-485 MODBUS & USB CONNECTIVITY

Upto 8 Relay Outputs, [Data Logging with Pen Drive compatibility \(USB\)](#)



MODEL		MS-5716RU-M1	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 2Wire or 3Wire	J/K/PT-100 2Wire or 3Wire (Factory set)
	Analog Input	0-10V DC / 4-20mA DC/ 0-20mA DC (Configurable)	0-10V DC / 4-20mA DC / 0-20mA DC (Factory set)
OUTPUT	Range	(-999 to 9999 For Analog I/P), J (0°C - 400°C), K (0°C - 1200°C) , PT-100 2Wire or 3Wire (-99.9°C - 400.0°C)(For Temperature I/P)	J (0°C to 600°C), K (0°C to 1200°C) PT-100 2Wire or 3Wire (-99°C to 400°C, -99.9°C to 400.0°C)
	Output 1	RS-485 MODBUS Communication (Optional)	8 Relay / SSR (Any one factory set) (Optional)
SPECIFICATION	Output 2	8 Relay With Grouping Facility (Optional)	RS-232 PC & Printer Interface (Optional)
	Output 3	USB Port with Data logging facility(Optional)	
Accuracy		±1% of FSD	
Supply		100-250V AC, 50/60 Hz	



2

PROCESS CONTROL INSTRUMENT FAULT ANNUNCIATOR

Upto 10 Fault Inputs & 3 Outputs



MODEL	FA-11	16 X 2 LCD Display
Dimension (HxWxD) mm	96 X 96 X 50	
Panel Cutout (mm)	92 X 92	
DISPLAY	16 Character by 2 line with GREEN back light LCD display	
INPUT	Input	10 Input potential free contact
OUTPUT		3 Relay (2 NO-NC-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
	Features	Fault Type NO or NC Configurable Last 10 fault history saved in memory
	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 3Wire / 4-20mA DC / 0-20mA DC / 0-10V DC (Any one factory set)
	Input 2	PT-100 3Wire / 4-20mA DC / 0-20mA DC / 0-10V DC (Any one factory set)
OUTPUT	Output	1 Relay / 2 Relay (Optional)
SPECIFICATION	Control Action	ON-OFF
	Accuracy	±1% of FSD
	Supply	100-250V AC, 50/60 Hz

PROCESS CONTROL INSTRUMENT JUMBO DISPLAY INDICATORS Single & Double Side

2



MODEL		PIC-6004A/ MSI-6004/ UTI-6004	PIC-3004A/MSI-3004/ UTI-3004
Dimension (HxWxD) mm		160 X 380 X 50	130 X 235 X 50
INPUT	Input Sensors	0-10V DC /4-20mA DC / 0-20mA DC (Configurable) , Pulse Through Encoder/Proximity, J/ K/ PT-100 2Wire 3Wire (Configurable) RS-485 MODBUS , Humidity Sensor	
	Range	(-999 to 9999, 0 to 9999 Count For Analog Input) , J (0°C - 400°C), K (0°C - 1200°C) , PT-100 2Wire or 3Wire (-99.9°C - 400.0°C), (0 to 100% RH for Humidity).	
OUTPUT	Output 1	2 Relays for Alarm output. (Optional)	
	Output 2	24V@30mA 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 / UTI-6004	

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 load cell (Factory set)
	Range	0 to 9999 (Configurable)
OUTPUT	Output 1	1Relay & 2Relay (Optional)
	Output 2	0-10V DC /4-20mA DC Retransmission (Any One Factory set) (Optional)
	Output 3	10V DC@20mA DC Load cell supply
	Output 4	RS-485 MODBUS (Optional)
SPECIFICATION	Accuracy	±1% of FSD
	Supply	230V AC ± 10% , 50Hz (Linear Power Supply)
Note		All output are optional

3

TIMER

PROGRAMMABLE TIMER

Universal Range



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
SPECIFICATION	Range				
	Range 1) 9999.59 hr/min. 2) 9999.59 min/sec 3) 999999 hr 4) 999999 Min 5) 999999 sec (Configurable)				
	Input Micro Switch/ Limit Switch / Proximity Switch / 230V AC (Factory Set)				
	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
SPECIFICATION	Range				
	999, 99.9, 9.99 Hour / Min / Sec (Configurable)				
	Output 1Relay 2C/O 5A@(resistive load)230V AC & SSR 12V max 20mA DC (Any one factory set)				
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)			100-250V AC, 50/60 Hz	100-250V AC, 50/60 Hz

TIMER

3

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	Start Pulse	Micro Switch / Limit Switch / Proximity (Configurable)			
	Range	9999 / 999.9 / 99.99 Sec/Min/Hrs (Configurable)			999 / 99.9 / 9.99 Sec/Min/Hrs (Configurable)
OUTPUT		1Relay 2C/O 5A@(resistive load)230V AC or SSR 12V max 20mA DC (Any one factory set)			
SPECIFICATION	Programm	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			
Start Pulse	Micro Switch / Limit Switch / Proximity (Configurable)		
Range	9999 / 999.9 / 99.99 Sec/Min/Hrs (Configurable)		
OUTPUT	2Relay 1C/O 5A@(resistive load)230V AC or 12V DC SSR Output (Any one factory set)		
SPECIFICATION			
Programm	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@(resistive load)230V AC or 12V max 20mA 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	Cascading facility available in SQT-1044 (8 Relay) Sequential timer up to 1 + 3 parallel	

UP TO 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 9999 / 99.99 / 999.9 Sec/Min/Hrs (Configurable)	
OUTPUT	4Relay 1C/O 5A@(resistive load)230V AC or SSR 12V max 20mA DC (Any one factory set)	2Relay 1C/O 5A@(resistive load)230V AC or SSR 12V max 20mA DC (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 Cascading facility available on request in MDT-1044 sequential timer	

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	Input			
	NPN/PNP Proximity Switch (Configurable)			
SPECIFICATION	Range			
	4 - 5000 RPM			
	Supply			
	230V AC $\pm$ 10%, 50Hz	100-250V AC, 50/60 Hz	230V AC $\pm$ 10%, 50Hz	100-250V AC, 50/60 Hz

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	Input				
	NPN/PNP Proximity Switch / Micro Switch (Configurable). 230V AC Pulse / Encoder (Any one factory set)				
SPECIFICATION	Range				
	0 To 999999 Count				
	Memory				
	Non-Volatile Memory				
	Reset				
	Manual Reset, Back Reset (Optional)				
	Supply				
	230V AC $\pm$ 10%, 50Hz				

COUNTER

DIGITAL PROGRAMMABLE COUNTER



MODEL	PC-1044	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@(resistive load)230V AC or SSR 12V max 20mA DC (Any one factory set)			
SPECIFICATION	Count Direction	Up / Down (Configurable)		
	Memory	Yes / No (Configurable)		
	Reset	Auto Reset / 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 & 2 Relay 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	Input	NPN/PNP Proximity switch / Micro Switch (Configurable) / 230V AC Pulse / Encoder (Factory Set)	
	Range	0 To 9999	
OUTPUT		1Relay 2C/O 5A@(resistive load)230V AC or SSR 12V max 20mA DC (Any one factory set)	
SPECIFICATION	Operating Mode	Delayed ON/ Delayed OFF (Configurable)	
	Count Direction	Up / Down (Configurable)	
	Memory	Yes / No (Configurable)	
	Speed Selection	Medium(Up to 5000 rpm), Fast(Up to 15000 rpm) (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	Input NPN/ PNP Proximity Switch / Micro Switch (Configurable) / 230V AC Pulse (Factory Set)		NPN/ PNP Proximity Switch / Micro Switch / 230V AC Pulse (Factory Set)
RANGE	Range Upper display range (0 -999999 Count) Lower display range (0 -9999)		Upper display range (0 -99999 Count) Lower display range (0 -9999)
OUTPUT	1Relay+Buzzer / SSR + Buzzer		
SPECIFICATION			
Memory	Non-Volatile Memory		
Reset	Auto reset / Manual reset / back reset		
Supply	230V AC $\pm$ 10%, 50Hz		100-250V AC, 50/60 Hz SMPs

DIGITAL LENGTH COUNTER With Proximity /Single & 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	Input NPN/PNP Proximity Switch (Configurable) / Encoder (Factory set)			
RANGE	0-99999.9 / 0-999999 / 0-9999.99 Meter (Configurable)			0-9999.9 / 0-99999 / 0-999.99 Meter (Configurable)
OUTPUT	1Relay 1C/O 5A@(resistive load)230V AC or SSR 12V max 20mA DC (Any one factory set)			
SPECIFICATION				
MPM Range	999.9 MPM			
Diameter	0-9999.99 MM			
Memory	Non-Volatile Memory			
Reset	Auto Reset / 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	NPN/PNP Proximity Switch (Configurable), Proximity input (Stretch Ratio Indicator)	
Start Pulse		
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 DC / 0-10V DC) (Factory set) (Optional)	
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	NPN/PNP Proximity switch / Micro Switch (Configurable) / 230V AC Pulse(Factory Set)	
Input		
Range	Upper Display Range: (0-999999 Count) , Lower Display Range: (0-9999 RPM)	
OUTPUT	1Relay 1C/O 5A@(resistive load)230V AC or SSR 12V max 20mA DC (Any one factory set)	
SPECIFICATION		
Memory	Non-Volatile Memory	
Reset	Auto Reset / Manual Reset / Back reset	
Supply	230V AC ± 10%, 50Hz	

COUNTER

COLOR MARK SENSOR

Multi-Colour Sensing



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

16 X 2 LCD Display

COUNTER CLUTCH BREAK CONTROLLER For Packaging Machine Application



MODEL	MC-1003	16 X 2 LCD Display	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 Input 2 Input 3	NPN Proxy for clutch NPN Color mark sensor (CMS) Micro Switch	
RANGE		Clutch ON Time : 0-99.99 Sec. : 0-99.99 Milisec	0-99.99 Milisec
OUTPUT	Output 1 Output 2 Output 3	For Clutch For Inching For Batch Counter	For Clutch For Inching
SPECIFICATION	Reset Memory Supply	Front Reset Non-Volatile Memory 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 & Micro Switch (Configurable)
	Range	0-999999 Count
OUTPUT	Output	1Relay 1C/O 5A@(resistive load)230V AC or12V max 20mA DC SSR Output (Optional)
SPECIFICATION	Memory	Non-Volatile Memory
	Reset	Auto / Manual Reset / Back reset
	Supply	230V AC ± 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

Start Pulse NPN/PNP Proximity Switch (Configurable) / Encoder (Factory set) , Micro Switch

RANGE

0-99999.9 / 0-999999 Meter (Configurable)

OUTPUT

1Relay 1C/O 5A@(resistive load)230V AC or 12V max 20mA DC SSR Output (Any one factory set)

SPECIFICATION

MPM Range 999.9 MPM
Diameter 0-9999.99 MM
Memory Non-Volatile Memory
Reset Auto Reset / Manual reset facility & front and back reset facility

Supply 100-250V AC, 50/60 Hz

Note **RS-485 input available as per request**

VIBRATOR CONTROLLER



MODEL MVC-72

Dimension (HxWxD) mm 72 X 72 X 50

Panel Cutout (mm) 68 X 68

INPUT

Inputs NPN/PNP Proximity Switch

Range 1 to 99 %

OUTPUT

Output 1 0-110V AC Corresponding to percentage input.

SPECIFICATION

Supply 230V AC $\pm$ 10%, 50Hz

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 60
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92	44 X 44
INPUT	Ampere (AC)	5A AC Direct		
	CT Ratio	Primary: 5/5A to 4000/5A AC		
	Voltage (AC)	0 to 500V AC		
SPECIFICATION	Accuracy	Class 1.0		
	Power Supply	230V AC $\pm 10\%$, 50Hz		

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 (AV-11, AV-21, AV-31, AV-41, AV-22)	

ENERGY 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 60
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92	44 X 44
INPUT	75mV DC through external shunt			
	0 to 9999 Ampere DC			
SPECIFICATION	19.99V DC / 99.99V DC / 199.9V DC / 750V DC (Factory set)			
	Class 1.0			
Note	230V AC $\pm 10\%$, 50Hz			
	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	1Ø 2 Wire
	230V AC, 50Hz
SPECIFICATION	5A AC
	Class 1.0
Power Supply	230V AC $\pm 10\%$, 50Hz

5

ENERGY

3 PHASE AND 1 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 3Wire / 1Ø 2 Wire 300V AC (L-N) / 500V 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	Volatge (AC) Ampere (AC)	0 to 6000/5A AC	0 to 6000/5A AC
SPECIFICATION	Accuracy Power Supply	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	300V AC (P-N) / 500V AC (P-P)		
Current	5/5 to 4000/5A AC		
SPECIFICATION			
Reset	By front Keypad	By front Keypad	Reset key at back
Measuring Range	0.000 to 9999 kW (Active power) 0 to 999999 kWh (Active energy)	0 to 999999 kWh (Active energy)	0 to 99999.9 Kwh
Accuracy	Class 1.0	Class 1.0	Class 1.0
Power Supply	230V AC $\pm$ 10%, 50Hz	230V AC $\pm$ 10%, 50Hz	230V AC $\pm$ 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 50	96 X 96 X 50
Panel Cutout (mm)	92 X 92	92 X 92	92 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	50.0 HZ	
Accuracy	Class 1.0	Class 1.0	
Power Supply	230V AC $\pm$ 10%, 50Hz	230V AC $\pm$ 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 (P-N) / 500V AC (P-P)	300V AC (P-N) / 500V AC (P-P)	20-300V AC
Current	5/5A to 6000/5A CT Ratio Selectable	5/5A to 4000/5A CT Ratio Selectable	5/5A to 400/5A CT Ratio Selectable
PARAMETER			
Voltage (L-L)	50 - 500V AC	50 - 500V AC	20 - 300V 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 - 60 Hz	45 - 60 Hz	45 - 60 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 , (SMPS Optional)		

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	3 Ø 4 Wire	3 Ø 4 Wire
Voltage	-----	0 - 415V AC (P-P)
Current	5 - 2000A	5 - 2000A
PARAMETER		
	Over Current, Under Current, Unbalance, Short Circuit, Lock Rotor Point, Phase sequence	Over Current, Under Current, Unbalance, Short Circuit, Lock Rotor Point, Over Voltage, Under Voltage, Phase sequence.
OUTPUT		
	1 Relay (NO-C-NC) 5A@(resistive load)230V AC	
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) RS-485 MODBUS Communication (Optional)	

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		
Current	5A AC Direct (CT ratio selectable 5/5A to 1600/5A)	
OUTPUT		
	1 Relay (NO-C-NC) 5A@(resistive load)230V AC	
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	

6

MULTIFUNCTION METER - DC



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	0-199.0 Kw
	Kwh	0-999999 Kwh
SPECIFICATION	Accuracy	Class 1.0
	Power Supply	230V AC $\pm 10\%$, 50Hz

AC-DC TESTING PANEL



AC DC-5A (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 Efficiency	0-1.000 PF	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

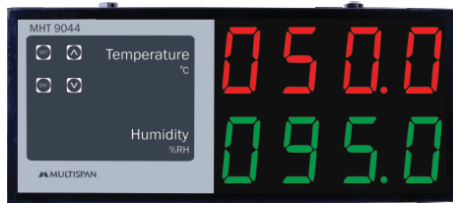
DESCRIPTION	MODEL	W X H X D (mm)	RANGE
Panel Mounting Type	TD-144	140X140X190	0.5, 1, 2 HP
Wall Mounting Mould Type	TD-13M	170X235X85	0.5, 1, HP
	TD-13M	210X285X110	2, 3 HP
Wall Mounting Panel Type	TD-13B	165X240X95	0.5, 1 HP
	TD-13B	230X300X105	2, 3 HP
Panel Mounting Type	TD-11	96 X 96 X 110	1 HP

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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