



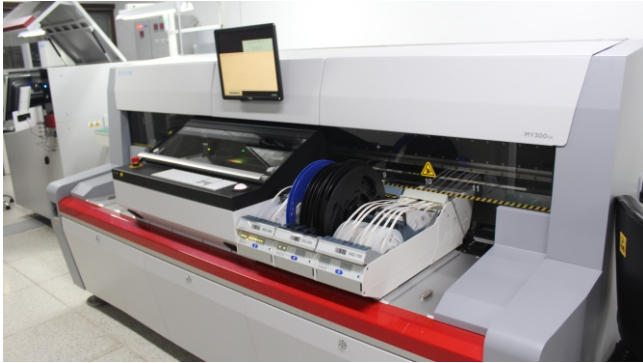
Measurement & Control with optimum performance

Since 1986



Temperature Controller
Process Instruments
Timers & Counters
Power & Energy Meters
Protection Relays

Product
Catalog
2022



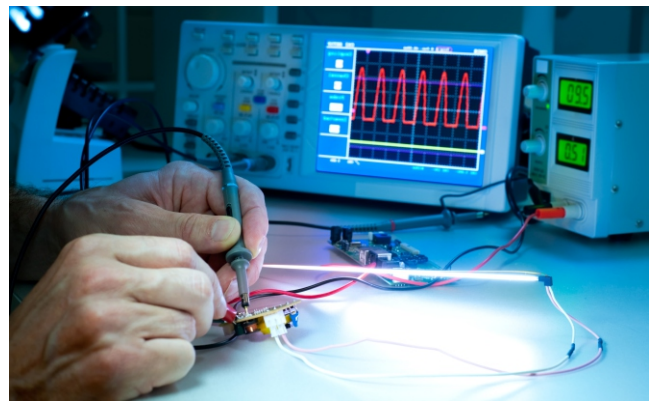
Electronic Assembly
Fully Integrated SMT Line



Plastic Enclosure Manufacturing
In-house Injection Moulding



Testing & Quality Control



Reliability Laboratory



Applications



PHARMACEUTICAL APPLICATIONS



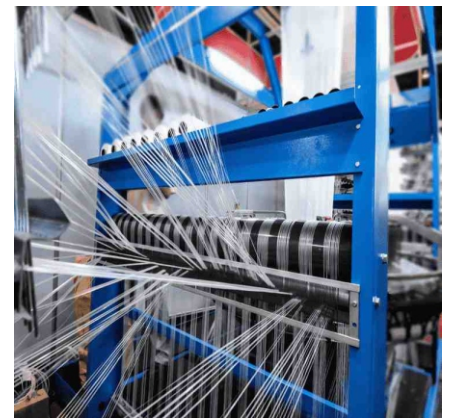
ELECTRICAL PANELS



PLASTIC INDUSTRIES



FOOD PROCESSING



TEXTILE INDUSTRY

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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 52	96 x 96 x 52
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 (Configurable)
	Range	J (0°C - 400°C), K (0°C - 1200°C), PT-100 2Wire or 3Wire (-99.9°C - 400.0°C)	(-999 to 9999)
OUTPUT	Output	RS-485 MODBUS Communication (Optional)	
SPECIFICATION	Accuracy	±1% of FSD	
	Supply	100-270V AC (SMPS), 50/60 Hz	

8 CHANNEL SCANNER WITH RS-485 MODBUS CONNECTIVITY

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



MODEL		MS-1248	MSU-1248U
Dimension (HxWxD) mm		96 x 96 x 52	96 x 96 x 52
Panel Cutout (mm)		92 x 92	92 x 92
INPUT	Inputs	J / K / PT-100 2Wire or 3Wire (Configurable)	J / K / PT-100 2Wire or 3Wire / 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) PT-100 2Wire or 3Wire (-99.9°C to 400.0°C, -99.9°C to 400.0°C)	J (0°C - 400°C), K (0°C - 1200°C), PT-100 2Wire or 3Wire (-99.9°C to 400.0°C For Temperature I/P) (-999 to 9999 For Analog I/P)
OUTPUT	Output 1	4 Relay with grouping facility	
	Output 2	RS 485 MODBUS Communication (Optional)	
	Output 3	USB Port with Data logging facility(Optional)	
SPECIFICATION	Control Action	ON/OFF	
	Accuracy	±1% of FSD	
	Supply	100-250V AC (SMPS), 50/60 Hz	

PROCESS CONTROL INSTRUMENT

16 CHANNEL SCANNER WITH RS-485 MODBUS & USB CONNECTIVITY

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

MODEL		MS-5716RU-M1
Dimension (HxWxD) mm		192 x 96 x 165
Panel Cutout (mm)		188 x 92
INPUT	Sensor Input	J / K / PT-100 2Wire or 3Wire
	Analog Input	0-10V DC / 4-20mA DC/ 0-20mA DC (Configurable)
	Range	J (0°C - 400°C), K (0°C - 1200°C) , PT-100 2Wire or 3Wire (-99.9°C to 400.0°C For Temperature I/P) (-999 to 9999 For Analog I/P)
OUTPUT	Output 1	RS-485 MODBUS Communication (Optional)
	Output 2	8 Relay With Grouping Facility (Optional)
	Output 3	USB Port with Data logging facility(Optional)
SPECIFICATION	Accuracy	±1% of FSD
	Supply	100-250V AC (SMPS), 50/60 Hz



Multispan Scanner Model Selection Guide

sr.no	Model	Channel	Input 1 J/k/pt-100	Input 2 4-20mA/0-20mA/0-10V DC	Output Relay	Output Rs-485	Output USB Port
1	MS-1208	8	✓				
2	MS-1208-M1	8	✓			✓	
3	MS-1208A	8		✓			
4	MS-1208A-M1	8		✓		✓	
5	MS-1248	8	✓		4		
6	MS-1248-M1	8	✓		4	✓	
7	MS-1248U	8	✓		4		✓
8	MS-1248A	8		✓	4		
9	MS-1248A-M1	8		✓	4	✓	
10	MSU-1248	8	✓	✓	4		
11	MSU-1248-M1	8	✓	✓	4	✓	
12	MSU-1248U	8	✓	✓	4		✓
13	MSU-1248U-M1	8	✓	✓	4	✓	✓
14	MS-5716	16	✓	✓			
15	MS-5716R	16	✓	✓	8		
16	MS-5716-M1	16	✓	✓		✓	
17	MS-5716U	16	✓	✓			✓
18	MS-5716R-M1	16	✓	✓	8	✓	
19	MS-5716RU	16	✓	✓	8		✓
20	MS-5716U-M1	16	✓	✓		✓	✓
21	MS-5716RU-M1	16	✓	✓	8	✓	✓

PROCESS CONTROL INSTRUMENT

FLOW RATE CUM TOTALIZER



MODEL		MFC-1048/MFC-1048P	MFC-3016D/MFC-3016A
Dimension (HxWxD) mm		96 x 96 x 52	48 x 96 x 65
Panel Cutout (mm)		92 x 92	46 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) (Optional)	
	Output 2	24V DC Transmitter Supply@30mA (by default)	
	Output 3	1Relay / 2Relay 5A, 230V AC (resistive load) (1 Relay by default)	
	Output 4	RS-485 MODBUS Communication (Optional)	
SPECIFICATION		RS-485 MODBUS Communication (Optional)	
Accuracy		±1% of FSD	
Supply		100-270V AC (SMPS), 50/60 Hz or 24V DC (Factory set)	

LOAD CELL INDICATOR / CONTROLLER



MODEL		LD-1006
Dimension (HxWxD) mm		96 x 96 x 100
Panel Cutout (mm)		92 x 92
INPUT	Input	0-20mV DC/0-30mV DC from load cell (Factory set)
	Range	0 to 9999
OUTPUT	Output	1Relay & 2Relay (1 Relay by default)
		10V DC@20mA DC Load cell supply (by default)
SPECIFICATION		0-10V DC /4-20mA DC Retransmission (Any One Factory Set) (Optional)
		RS-485 MODBUS (Optional)
Accuracy		±1% of FSD
Supply		230V AC ± 10% , 50Hz

PROCESS CONTROL INSTRUMENT

SIGNAL ISOLATOR & CURRENT TRANSDUCER



MODEL

Dimension (HxWxD) mm
Mounting

MI-431

100 x 12.5 x 115
Din rail mounting

MI-532

100 x 17.5 x 115
Din rail mounting

MI-631/ MI-632

76 x 27 x 85
Din rail mounting

INPUT

Input

Analog:
0-20mA DC / 4-20mA DC / 0-10V DC (Factory set)

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)

OUTPUT

Sensor

(0-20mA DC /
4-20mA DC / 0-10V DC)
Single Output
(Factory Set)
24V DC Trans.Supply

(0-20mA DC /
4-20mA DC / 0-10V DC)
Dual Output
(Factory Set)
24V DC Trans.Supply

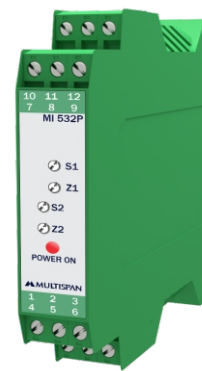
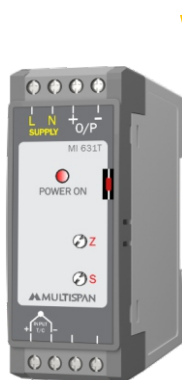
J/K/PT-100 (Factory Set)

0-20mA DC / 4-20mA DC / 0-10V DC
(Single or Dual Output) (Factory Set)

SPECIFICATION

Accuracy
Supply

±0.5% of FSD
100-270V AC (SMPS), 50/60 Hz/ 24V DC (Factory Set)



MODEL

Dimension (HxWxD) mm
Mounting

MI-631T/ MI-632T

76 x 27 x 85
Din rail mounting

MI-631P/ MI-532P

76 x 27 x 85
Din rail mounting

INPUT

Input

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)

0-20mA 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)

OUTPUT

Sensor

0-20mA DC / 4-20mA DC / 0-10V DC
(Single or Dual Output) (Factory Set)

PT-100 2Wire or 2Wire

0-20mA DC / 4-20mA DC / 0-10V DC
(Single or Dual Output) (Factory Set)

SPECIFICATION

Accuracy
Supply

±0.5% of FSD for J Type & ±1% of FSD for K Type
100-270V AC (SMPS), 50/60 Hz/ 24V DC (Factory Set)

±0.5% of FSD

PROCESS CONTROL INSTRUMENT

SIGNAL ISOLATOR & CURRENT TRANSDUCER



MODEL

Dimension (HxWxD) mm
Mounting

CTR-63/CTR-632

76 x 27 x 85
Din rail mounting

VTR-63/VTR-632

76 x 27 x 85
Din rail mounting

INPUT

Input

0 To 5A AC, 0 To 1A AC
(Factory Set)

0 To 5A AC, 0 To 1A AC
(Factory Set)

OUTPUT

Sensor

PT-100 2Wire or 3Wire

PT-100 2Wire or 3Wire

(0-20mA DC / 4-20mA DC / 0-10V DC)
(Single or Dual Output)
(Factory Set)

(0-20mA DC / 4-20mA DC / 0-10V DC)
(Single or Dual Output)
(Factory Set)

SPECIFICATION

Accuracy
Supply

±1% of FSD
100-270V AC (SMPS), 50/60 Hz/ 24V DC (Factory Set)

LOOP POWERED TRANSMITTER



MODEL

Dimension (HxWxD) mm
Mounting

LPT-45

Diameter : 45 mm
Head Mounting

LPT-63

76 x 27 x 85
Din Rail Mounting

INPUT

Input

PT-100 3Wire / J / K (Factory set)

Range

PT-100: 0 to 100/ 0 to 200/ 0 to 300/
0 to 400 (Configurable) / Fix Range

Fix Range

OUTPUT

4-20mA DC Signal (2 Wire System)

SPECIFICATION

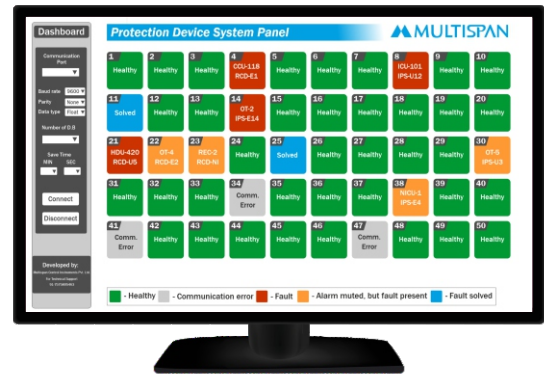
Supply

24V DC Loop Powered

PROCESS CONTROL INSTRUMENT

FAULT ANNUNCIATOR

Upto 10 Fault Inputs & 3 Outputs



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

FA-11

96 x 96 x 52
92 x 92

16 X 2 LCD Display

PC INTERFACE SOFTWARE

DISPLAY

INPUT

Input

16 Character by 2 line with GREEN back light LCD display

10 Input potential free contact

OUTPUT

SPECIFICATION

Supply

Indication

Features

Note

100-270V AC (SMPS), 50/60 Hz

1) Audio Alarm 2) Visual Alarm 3) Machine Output

Fault Type NO or NC Configurable

Last 10 fault history saved in memory

RS 232 Serial PC Interfacing to define Soft / Hard fault , RS-485 MODBUS is available as per request

DUAL PROCESS INDICATOR



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

DPI-122

96 x 96 x 54
92 x 92

DPI-1824

96 x 96 x 54
92 x 92

INPUT

Input 1 & 2

PT-100 3Wire / 4-20mA DC / 0-20mA DC / 0-10V DC (Any two factory set)

J / K / PT-100 2Wire or 3Wire
0-10V DC / 4-20mA DC / 0-20mA DC (Configurable).

RANGE

-999 to 9999 For Analog I/P,
PT-100 (0.0°C - 400.0°C)

(-999 To 9999 for Analog Input)
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) For Temperature Sensor

OUTPUT

Output

1 Relay / 2 Relay (Optional)
24V DC Transmitter Supply@30mA (Optional)
RS-485 Modbus (Optional)

4 Relay + 2 Retransmission + 24V DC Transmitter @30mA DC

SPECIFICATION

Control Action

Accuracy

Supply

ON-OFF

±1% of FSD

100-270V AC (SMPS), 50/60 Hz

PROCESS CONTROL INSTRUMENT

PROCESS INDICATORS



MODEL		PI-38	PI-54	PI-41	UPI-38
Dimension (HxWxD) mm		48 x 96 x 26	38 x 62 x 65	48 x 48 x 46	48 x 96 x 65
Panel Cutout (mm)		46 x 92	31 x 54	45 x 45	46 x 92
INPUT	Inputs	0-10V DC / 0-20mA DC / 4-20mA DC (Configurable)			J / K / PT-100 2Wire or 3Wire , 0-10V / 4-20mA / 0-20mA DC (Configurable)
	Range	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) For Temperature Sensor, (-999 To 9999 for Analog Input)			
RESOLUTION	Display Resolution	0.000/00.00/000.0/0000 (Configurable, for Analog Input)			
FEATURES	Feature	Correction Factor, Offset, Filtration Rate, Reverse Scaling			
	Supply	100-270V AC (SMPS), 50/60 Hz			

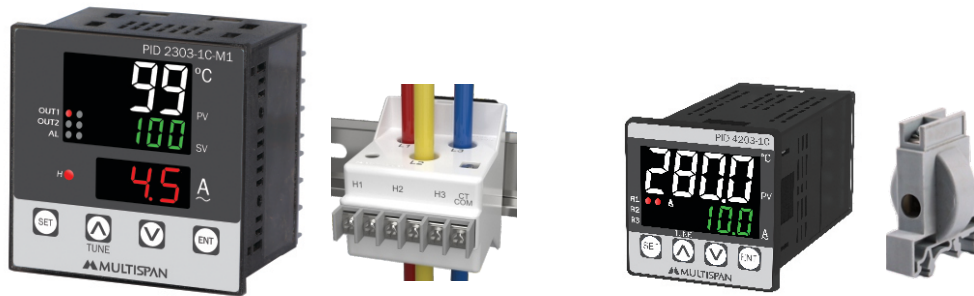
PROCESS CONTROLLER



MODEL		PIC-1101	PIC-38	PIC-4202
Dimension (HxWxD) mm		96 x 96 x 54	48 x 96 x 65	48 x 48 x 95
Panel Cutout (mm)		92 x 92	46 x 92	45 x 45
INPUT	Inputs	0 To 10V DC/ 4 To 20mA DC/ 0 To 20mA DC (Configurable)		
	Range	-999 To 9999 (Configurable)		
OUTPUT	Output 1	1 Relay (By default)		2 Relay (By default)
	Output 2	2 Relay (Optional)		
	Output 3	24V DC Transmitter Supply@30mA (By default)		24V DC Transmitter Supply @30mA
	Output 4	4-20mA / 0-20mA DC Retransmission Output (Factory Set)(Optional)		NA
SPECIFICATION	Operating Mode	High / Low / Inband / Outband / Absolute Low / Absolute Outband Alarm (Configurable)		
	Accuracy	±1% of FSD		
	Supply	100-270V AC (SMPS), 50/60 Hz		

TEMPERATURE

PID TEMPERATURE CONTROLLER BUILT IN AMPERE INDICATION



MODEL		PID 2303-1C/3C (With CT Module)	PID-4203-1C (With CT Module)
Dimension (HxWxD) mm		72 x 72 x 85	48 x 48 x 95
Panel Cutout (mm)		68 x 68	45 x 45
INPUT	Input	J / K (Configurable) + CT Input	J / K / PT-100 (Configurable)
	Range	J (0°C to 400°C), K (0°C to 500°C)	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)
CT INPUT		1 CT (30A or 60A Rail Mounting) 3 CT (30A or 60A Rail Mounting)	1 CT (30A or 60A Rail Mounting)
OUTPUT		3 Relay 1C/O 5A, 230V AC (resistive load) or SSR Drive O/P 12V DC, 20mA (Factory Set)(3 Set point)	3 Relay 1C/O 5A, 230V AC (resistive load) or 3 SSR Drive O/P 12V DC, 20mA (Factory Set)(3 Set point) (Heat + Cool + Alarm)
SPECIFICATION	Control Action	PID / ON-OFF (Configurable)	PID / ON-OFF (Configurable)
	Accuracy	±1% of FSD	±1% of FSD
	Supply	100-250V AC (SMPS), 50/60 Hz	100-250V AC (SMPS), 50/60 Hz
	Note	RS-485 Output available in PID 2303-1C/3C	

MOTOR SYNCHRONIZER



MODEL		SN-126
Dimension (HxWxD) mm		75 x 45 x 110
Mounting		Din Rail Mounting
INPUT		3Wire /POT Resistance
OUTPUT		1Relay for zeroing facility 0-10V DC(4 / 5 / 6 Channel)
SPECIFICATION		Supply
		230V AC, ± 10% 50Hz

TEMPERATURE

UNIVERSAL PROGRAMMABLE CONTROLLER

Auto Tune PID, RS-485 MODBUS Facility



Coming soon



MODEL		PTC L12A-M1	PTC-382A-M1	UTC-4201A
Dimension (HxWxD) mm		96 x 96 x 52	48 x 96 x 65	48 x 48 x 95
Panel Cutout (mm)		92 x 92	46 x 92	45 x 45
INPUT	Input	J / K / PT-100 2Wire or 3Wire, 0-10V / 4-20mA / 0-20mA (Configurable).		J / K / PT-100 2Wire or 3Wire
	Range	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) For Temperature Sensor, (-999 To 9999 for Analog Input)		J (0°C to 600°C), K (0°C to 1200°C), PT-100 (-99°C TO 400°C, -99.9°C TO 400.0°C)
OUTPUT	Output 1	1Relay 1C/O 5A,230V AC (resistive load) or SSR Drive O/P 12V DC,20mA (Factory Set)		0-10V DC/4-20mA DC (Factory Set)
	Output 2	1Relay 1C/O 5A,230V AC (resistive load) or SSR Drive O/P 12V DC, 20mA (Factory Set)		
	Output 3	0-10V DC/4-20mA DC (Factory Set) (Controlling/Retransmission Selection)		
	PC Communication	RS-485 MODBUS Communication (Optional)		
SPECIFICATION		Control Action Accuracy Supply		
		PID / ON-OFF (Configurable) ±1% of FSD 100-250V AC (SMPS), 50/60 Hz		



Coming soon



MODEL		PTC 1202A-M1	PTC-2202A-M1	PTC-4202A-M1
Dimension (HxWxD) mm		96 x 96 x 54	72 x 72 x 45	48 x 48 x 95
Panel Cutout (mm)		92 x 92	68 x 68	45 x 45
INPUT	Input	J / K / PT-100 2Wire or 3Wire, 0-10V / 4-20mA / 0-20mA (Configurable).		
	Range	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) For Temperature Sensor, (-999 To 9999 for Analog Input)		
OUTPUT	Output 1	1Relay 1C/O 5A,230V AC (resistive load) or SSR Drive O/P 12V DC,20mA (Factory Set)		
	Output 2	1Relay 1C/O 5A,230V AC (resistive load) or SSR Drive O/P 12V DC, 20mA (Factory Set)		
	Output 3	0-10V DC/4-20mA DC (Factory Set) (Controlling/Retransmission Selection)		
	PC Communication	RS-485 MODBUS Communication (Optional)		
SPECIFICATION		Control Action Accuracy Supply		
		PID / ON-OFF (Configurable) ±1% of FSD 100-250V AC (SMPS), 50/60 Hz		

PTC MODEL SELECTION GUIDE

No	Product Model	Display	Size (H x W x D)mm	Output 1	Output 2	Output 3	Output RS-485
1	PTC-L12	Graphical LCD	96 x 96 x 54	Relay	Relay	-	-
2	PTC-L12A	Graphical LCD	96 x 96 x 54	4-20mA/ 0-10V DC	Relay	Relay	-
3	PTC-L12-M1	Graphical LCD	96 x 96 x 54	Relay	Relay	-	✓
4	PTC-L12A-M1	Graphical LCD	96 x 96 x 54	4-20mA/ 0-10V DC	Relay	Relay	✓
5	PTC-1202	LED	96 x 96 x 54	Relay	Relay	-	-
6	PTC-1202A	LED	96 x 96 x 54	4-20mA/ 0-10V DC	Relay	Relay	
7	PTC-1202-M1	LED	96 x 96 x 54	Relay	Relay	-	✓
8	PTC-1202A-M1	LED	96 x 96 x 54	4-20mA/ 0-10V DC	Relay	Relay	✓
9	PTC-4202	LED	48 x 48 x 95	Relay	Relay	-	-
10	PTC-4202A	LED	48 x 48 x 95	4-20mA/ 0-10V DC	Relay	Relay	-
11	PTC-4201-M1	LED	48 x 48 x 95	Relay	-	-	✓
12	PTC-4202-M1	LED	48 x 48 x 95	Relay	Relay	-	✓
13	PTC-4202A-M1	LED	48 x 48 x 95	4-20mA/ 0-10V DC	Relay	Relay	✓

Note : In Analog output 0-10V DC or 4-20mA DC any one fixed, to confirm while order placed.

TEMPERATURE

HUMIDITY + TEMPERATURE CONTROLLER



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

MHC-1101 (Humidity Controller)

96 x 96 x 54
92 x 92

MHT-1202 (Humidity + Temp. Controller)

96 x 96 x 54
92 x 92

INPUT

Input
Range

Humidity Sensor
0.0 to 100.0%

S-1: PT-100 2Wire or 3Wire (RTD) S-2: Humidity Sensor

OUTPUT

1Relay 1C/O, 5A @230V AC (Resistive Load)

1st Relay for Temperature and 2nd Relay for Humidity.
RS-485 Modbus (Optional)

SPECIFICATION

Control Action
Accuracy
Supply
Note

ON-OFF
±1% of FSD
100-270V AC (SMPS), 50/60 Hz

ON-OFF
±1% of FSD
100-270V AC (SMPS), 50/60 Hz

RS-485 Modbus Available on Request MHT-1202

TEMPERATURE

9 STAGE PROFILE CONTROLLER



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

PRC-1202 (Profile Controller)

96 x 96 x 100
92 x 92

INPUT

Input
Range

J/ K/ PT-100 2Wire or 3Wire (Factory Set)

J (0°C to 600°C), K (0°C to 1200°C),
PT-100 2Wire or 3Wire
(-99°C to 400°C, 0.0°C to 400.0°C)

OUTPUT

2 Relay 1C/O (9 set point), 2nd Relay for Alarm.

SPECIFICATION

Control Action
Accuracy
Supply

ON-OFF
±1% of FSD
100-270V AC (SMPS), 50/60 Hz

TEMPERATURE

TEMPERATURE CONTROLLER - UNIVERSAL

Double Display PID Controller - 3 Relay



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

UTC-4203

48 x 48 x 95
45 x 45

UTC-3203

96 x 48 x 85
92 x 45

INPUT

Input J / K / PT-100 2Wire or 3Wire (Configurable)

Range 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

3 Relay 1C/O 5A, 230V AC (resistive load) or 3 SSR Drive O/P 12V DC, 20mA (3 Set point)

SPECIFICATION

Control Action PID / TP / ON-OFF (Configurable)

Accuracy ±1% of FSD

Supply 100-270V AC (SMPS), 50/60 Hz

TEMPERATURE CONTROLLERS

Single Display, PID - Economy Range



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

UTC-114

96 x 96 x 43
92 x 92

UTC-214

72 x 72 x 45
68 x 68

UTC-413P

48 x 48 x 70
45 x 45

INPUT

Input J / K / PT-100 2Wire or 3Wire (Configurable)

Range J (0°C to 400°C or 0°C to 600°C), **PT-100 2Wire or 3Wire** (-99°C to 400°C)
K (0°C to 1200°C),

J (0°C to 600°C), K (0°C to 999°C),
PT-100 (-50.0°C to 200.0°C)

OUTPUT

1Relay 1C/O 5A, 230V AC (resistive load) & SSR Drive O/P 12V DC, 30mA (Parallel to Relay) (1 Set point)

SPECIFICATION

Control Action PID / ON-OFF (Configurable)

Accuracy ±1% of FSD

Supply 100-270V AC (SMPS), 50/60 Hz

TEMPERATURE

TEMPERATURE CONTROLLERS

Dual Output PID Controller - **FULL FEATURED**



MODEL	UTC-1202G	UTC-2202G	UTC-4202G	UTC-3202
Dimension (HxWxD) mm	96 x 96 x 54	72 x 72 x 85	48 x 48 x 95	96 x 48 x 85
Panel Cutout (mm)	92 x 92	68 x 68	45 x 45	92 x 45
INPUT	Input: J / K / PT-100 2Wire or 3Wire (Configurable) Range: J (0°C to 600°C, 0.0 to 400.0), K (0°C to 1200°C, 0.0 to 500.0°C) PT-100 2Wire or 3Wire (-50°C to 400°C, -50.0°C to 400.0°C)			J / K / PT-100 2Wire or 3Wire (Confi.)
OUTPUT	2 Output : (SSR parallel to 1 st Relay) + 1Relay or 1SSR Drive O/P (2 Relay 1C/O 5A,230V AC (resistive load) & SSR Drive O/P 12V DC, 20mA)			
SPECIFICATION	Operating Mode: Heat / Cool / Alarm Alarm: High / Inband / Absolute Low / Absolute Outband / Outband / End Alarm/ Low Alarm Outband + Soak Timer Control Action: PID / TP / ON-OFF (Configurable) Accuracy: ±0.5% of FSD Supply: 100-270V AC (SMPS), 50/60 Hz			

TEMPERATURE CONTROLLER

Double Display, Autotune PID



MODEL	UTC-121G	UTC-221G	UTC-421G	UTC-321P
Dimension (HxWxD) mm	96 x 96 x 54	72 x 72 x 85	48 x 48 x 95	96 x 48 x 85
Panel Cutout (mm)	92 x 92	68 x 68	45 x 45	92 x 45
INPUT	Input: J / K / PT-100 2Wire or 3Wire (Configurable) Range: J (0°C to 600°C, 0.0 to 400.0), K (0°C to 1200°C, 0.0 to 500.0°C) PT-100 2Wire or 3Wire (-50°C to 400°C, -50.0°C to 400.0°C)			
OUTPUT	1Relay 1C/O 5A,230V AC(resistive load) & SSR Drive O/P 12V DC, 20mA (Parallel to Relay) (1 Set point)			
SPECIFICATION	Control Action: PID / ON-OFF (Configurable) Accuracy: ±0.5% of FSD Supply: 100-270V AC (SMPS), 50/60 Hz			

TEMPERATURE

TEMPERATURE CONTROLLER

Single Output PID Controller



MODEL	UTC-121P	UTC-221P	UTC-421P
Dimension (HxWxD) mm	96 x 96 x 43	72 x 72 x 45	48 x 48 x 70
Panel Cutout (mm)	92 x 92	68 x 68	45 x 45
INPUT	Input Range J/ K/ PT-100 2Wire or 3Wire (Configurable) J (0°C to 600°C), K (0°C to 999°C), PT-100 2Wire or 3Wire (-99°C to 400°C) (-19.9 to 99.9)		
OUTPUT	1Relay 1C/O 5A,230V AC (resistive load) & SSR Drive O/P 12V DC,30mA (Parallel to Relay) (1 Set point)		
SPECIFICATION	Control Action Accuracy Supply PID / TP/ ON-OFF (Configurable) ±1% of FSD 100-270V AC (SMPS), 50/60 Hz		



MODEL	TC-421P	TC-442	TC-443
Dimension (HxWxD) mm	48 x 48 x 70	48 x 48 x 70	48 x 48 x 70
Panel Cutout (mm)	45 x 45	45 x 45	45 x 45
INPUT	Input Range J/K Type J (0°C to 600°C), K (0°C to 900°C)		
OUTPUT	1Relay 1C/O 5A,230V AC (resistive load) & SSR 12V DC,30mA DC (Parallel to Relay) (1 Set point)	2 Output : (SSR parallel to 1 st Relay) + 1Relay (2Relay 1C/O 5A,230V AC (resistive load) & SSR Drive O/P 12V DC, 20mA)	3 Output : (SSR parallel to 1 st Relay) + 2 Relay (3 Relay 1C/O 5A,230V AC (resistive load) & SSR Drive O/P 12V DC,20mA)
SPECIFICATION	Control Action Accuracy Supply PID / ON-OFF (Configurable) ±1% of FSD 100-270V AC (SMPS), 50/60 Hz		

TEMPERATURE

DIGITAL TEMPERATURE CONTROLLERS

(Fixed Input)



MODEL		TC-19	TC-29	TC-49
Dimension (HxWxD) mm		96 x 96 x 43	72 x 72 x 45	48 x 48 x 70
Panel Cutout (mm)		92 x 92	68 x 68	45 x 45
INPUT	Input	J/ K/ R/ S / PT-100 2Wire or 3Wire (Factory Set)		J/ K (Configurable) or PT-100 2Wire or 3Wire (Factory Set)
	Range	J (0°C to 400°C or 0°C to 600°C), K (0°C to 1200°C), PT-100 2Wire or 3Wire (0°C to 400°C, -50.0°C to 200.0°C)		J (0°C to 600°C), K (0°C to 999°C), PT-100 (-50.0°C to 200.0°C)
OUTPUT		1Relay 1C/O 5A, 230V AC (resistive load) or SSR (Factory set)		1Relay 1C/O 5A, 230V AC (resistive load) & SSR Drive O/P 12V DC, 20mA (Parallel to Relay)
SPECIFICATION		Control Action TP / ON-OFF (Factory Set)		TP/ ON-OFF (Configurable)
		Accuracy ±1% of FSD		±1% of FSD
		Supply 230V AC ± 10%, 50Hz		100-270V AC (SMPS), 50/60 Hz

PID TEMPERATURE CONTROLLER

Economy Range



MODEL		TC-29P	TC-221P	TC-49P
Dimension (HxWxD) mm		72 x 72 x 45	72 x 72 x 45	48 x 48 x 70
Panel Cutout (mm)		68 x 68	68 x 68	45 x 45
INPUT	Input	J/ K/ PT-100 2Wire or 3Wire (Factory Set)	J Type	J/ K (Configurable) or PT-100 2Wire or 3Wire (Factory Set)
	Range	J (0°C to 400°C or 0°C to 600°C), K (0°C to 1200°C), PT-100 2Wire or 3Wire (0°C to 400°C, -50.0°C to 200.0°C)	J (0°C to 600°C)	J (0°C to 600°C), K (0°C to 999°C), PT-100 (-50.0°C to 200.0°C)
OUTPUT		1Relay 1C/O 5A,230V AC (resistive load) & SSR Drive O/P 12V DC,20mA (Parallel to Relay) (1 Set point)		
SPECIFICATION		Control Action PID/ ON-OFF (Configurable)		
		Accuracy ±1% of FSD		
		Supply 100-270V AC (SMPS), 50/60 Hz		



TEMPERATURE PID Temperature Controller Modules



Master Module

Slave Modules

MODEL		DTC-1X (Master Module)	DTC-1A (Slave Module)
Dimension (HxWxD) mm		76 x 27 x 116	76 x 27 x 116
Panel Cutout (mm)		Din Rail Mounting	Din Rail Mounting
INPUT	Input	J / K / PT-100 (Configurable).	
	Range	J (0°C to 600°C), K (0°C to 1200°C), PT-100 (-99.0°C to 400.0°C), (-99.0°C to 400.0°C)	
OUTPUT		2 Relay 1C/O, 230V AC, 5A or SSR Drive O/P 12V DC, 20mA (Factory Set)	
Communication		RS-485 MODBUS Communication	
SPECIFICATION			
Control Action		PID / TP / ON-OFF (Configurable)	
Accuracy		±1% of FSD	
Supply		24V DC (For Master Module)	

Features

MODBUS RS-485 communication for HMI Indication

Connection upto 1 Master + 7 Slave modules.

Note :

For more than 8 modules, master module can be repeated with 7 slaves



A brand by **MULTISPAN**



**NEW
LAUNCH**



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

CC-5010

40 x 80 x 67
30 x 71

CC-5020

40 x 80 x 67
30 x 71

CC-5052

40 x 80 x 67
30 x 71

INPUT

Input
Range

NTC (Thermistor)
(-40°C to 90.0°C)

OUTPUT

1Relay 1C/O **10A**, 230V AC
(Resistive Load)
(With Defrost Facility)

1Relay 1C/O **20A**, 230V AC
(Resistive Load)
(With Defrost Facility)

2 Relays for Compressor

SPECIFICATION

Control Action
Supply

ON-OFF (Cooling Mode)
230V AC $\pm$ 10%, 50Hz / 24V DC / 12V DC (Factory set)

**NEW
LAUNCH**



**NEW
LAUNCH**



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

CC-5012/15

40 x 80 x 67
30 x 71

CC-5022/25

40 x 80 x 67
30 x 71

INPUT

Input
Range

NTC (Thermistor)
(-40°C to 90.0°C)

(-50°C to 99.9°C)

OUTPUT

1st Relay for Compressor (10 Amp)
2nd Relay for Alarm

1st Relay for Compressor (20 Amp)
2nd Relay for Alarm

SPECIFICATION

Control Action
Supply

ON-OFF (Cooling Mode)
230V AC $\pm$ 10%, 50Hz / 24V DC / 12V DC (Factory set)

Note:

Buzzer is available as a second output in CC-5015/25.



A brand by **MULTISPAN**



MODEL		CC-5021	CC-5048
Dimension (HxWxD) mm		40 x 80 x 67	40 x 80 x 67
Panel Cutout (mm)		30 x 71	30 x 71
INPUT	Input	NTC (Thermistor)	NTC (Thermistor) + Door sensor
	Range	(-40°C to 90.0°C)	
OUTPUT		1 st Relay for Compressor 2 nd Relay for Defrost heater	1 st Relays for Compressor (20 Amp) 2 nd Relay for Alarm
SPECIFICATION		Control Action Supply	
		ON-OFF (Cooling Mode) 230V AC ± 10%, 50Hz / 24V DC / 12V DC (Factory set)	

All Cryo models also available in Touch pad Facility.

HUMIDITY CONTROLLER



MODEL		MHC-5012 (Humidity Controller)
Dimension (HxWxD) mm		40 x 80 x 67
Panel Cutout (mm)		30 x 71
INPUT	Input	Humidity Sensor
	Range	0.0 to 100.0%
OUTPUT		2 Relay 1C/O, 5A @230V AC (Resistive Load)
SPECIFICATION		Control Action Accuracy Supply
		ON-OFF ±1% of FSD 230V AC ± 10%, 50Hz / 24V DC / 12V DC (Factory set)

TIMER

UP TO 12 CHANNEL SEQUENTIAL TIMER

With Cascading Facility For 8 + 8 Outputs

4,8 and 12 Channel
Sequential Timer



MODEL		SQT-1044/SQT-1244 (Sequential Timer)	CMT-1044 (Combination Timer)	SQT-1022 (Sequential Timer)
Dimension (HxWxD) mm		96 x 96 x 52	96 x 96 x 52	96 x 96 x 52
Panel Cutout (mm)		92 x 92	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 (resistive load) or SSR Drive O/P 12V DC, 20mA Output (Any one factory set)		4Relay 1C/O 5A,230V AC (resistive load) or SSR 12V DC, 20mA 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	100-270V AC (SMPS), 50/60 Hz		
	NOTE	Cascading facility available in SQT-1044 (8 Relay) Sequential timer up to 1 + 3 parallel SSR output is available on request Cascading facility available on request in SQT-1022 Sequential Timer		



MODEL		RTC-1048 (Real Time Clock Timer)
Dimension (HxWxD) mm		96 x 96 x 52
Panel Cutout (mm)		92 x 92
RANGE	Range	23:59:59 Hrs / Min / Sec
OUTPUT		1Relay 1C/O
SPECIFICATION		
	Parameters	ON Time / OFF Time (16 Program)
	Supply	100-270V AC (SMPS), 50/60 Hz

TIMER

PROGRAMMABLE TIMER

Universal Range - 1Relay Output



MODEL	UTR-1033	UTR-2033	UTR-433	UTR-413
Dimension (HxWxD) mm	96 x 96 x 54	72 x 72 x 45	48 x 48 x 70	48 x 48 x 70
Panel Cutout (mm)	92 x 92	68 x 68	45 x 45	45 x 45

INPUT	Start Pulse	Micro Switch / Limit Switch / Proximity (Configurable)
	Range	999 / 99.9 / 9.99 Sec/Min/Hrs (Configurable)
OUTPUT		1Relay 2C/O 5A, 230V AC(resistive load)
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	100-270V AC (SMPS), 50/60 Hz

PROGRAMMABLE TIMER

UNIVERSAL TIMER - 2Relay output



MODEL	UTR-1244	UTR-2244	UTR-4244	CTU-4244
Dimension (HxWxD) mm	96 x 96 x 54	72 x 72 x 45	48 x 48 x 70	48 x 48 x 70
Panel Cutout (mm)	92 x 92	68 x 68	45 x 45	45 x 45

INPUT	Start Pulse	Micro Switch / Limit Switch / Proximity (Configurable)
	Range	9999 / 999.9 / 99.99 Sec / Min / Hrs (Configurable)
OUTPUT		2Relay 1C/O 5A, 230V AC (resistive load)
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	100-270V AC (SMPS), 50/60 Hz

TIMER

PROGRAMMABLE TIMER

Time Totalizer



MODEL	DTT-1000	DTT-2000	DTT-5000	DTT-3000	DTT-56G
Dimension (HxWxD) mm	96 x 96 x 43	72 x 72 x 60	36 x 72 x 95	48 x 96 x 26	38 x 62 x 65
Panel Cutout (mm)	92 x 92	68 X 68	32 x 68	46 x 92	31 x 54
RANGE	Range				
	1) 9999.59 hr/min. 2) 9999.59 min/sec 3) 99999.9 sec 4) 999999 sec 5) 9999.99 sec 6) 99999.9 min 7) 999999 min 99999.9 hr 9) 999999 hr (Configurable)				
INPUT	Input				
	Micro Switch/ Limit Switch / Proximity Switch / 230V AC (Factory Set)				
SPECIFICATION	Supply				
	230V AC $\pm$ 10%, 50Hz				

DIGITAL PRESETABLE TIMER

Multi Range- Thumbwheel Setting



MODEL	MDT-1310F	MDT-2312F	MDT-4310N	DIN-63	DIN-63C	
Dimension (HxWxD) mm	96 x 96 x 52	72 x 72 x 45	48 x 48 x 70	76 x 28 x 85	76 x 28 x 85	
Panel Cutout (mm)	92 x 92	68 x 68	45 x 45	DIN rail mounting	DIN rail mounting	
RANGE OUTPUT	Range	999 , 99.9, 9.99 Hour / Min / Sec (Configurable)				
	Output	1Relay 2C/O 5A,230V AC (resistive load)		1Relay 1C/O 5A, 230V AC (res. load)	1Relay 2C/O 5A,230V AC (resistive load)	
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 ± 10%, 50Hz		100-270V AC/DC (SMPS), 50/60 Hz		

COUNTER

PHOTO ELECTRIC CONTROLLERS

For Fully Pneumatic Packaging Machine

NEW
LAUNCH

MODEL		PFLC-68
Dimension (HxWxD) mm		96 X 96 X 54
Panel Cutout (mm)		92 x 92
INPUT	Input 1	2 NPN Proximity Switch (Factory Set)
	Input 2	Color Mark Sensor (NPN/PNP Selection)
OUTPUT	Output 1	Clutch & Brake
	Output 2	H-Sealer Relay
	Output 3	V-Sealer Relay
	Output 4	Nitrogen Filling Relay
	Output 5	Batch Cutter Relay
	Output 6	Batch Coding Relay
	Output 7	Auger Relay
	Output 8	Unwinding Relay
SPECIFICATION	Memory	Non-Volatile Memory
	Reset	Manual Reset
	Supply	24V DC



Touch
Screen



MODEL		MPC-1065
Dimension (HxWxD) mm		96 X 96 X 52
Panel Cutout (mm)		92 x 92
INPUT	Input 1	2 NPN/PNP Proximity Switch (Factory Set)
	Input 2	Color Mark Sensor (NPN/PNP Selection)
OUTPUT	Output 1	Clutch & Brake
	Output 2	H-Sealer Relay
	Output 3	Nitrogen Filling Relay
	Output 4	Batch Cutter Relay
	Output 5	Unwinding Relay
SPECIFICATION	Memory	Non-Volatile Memory
	Reset	Manual Reset
	Supply	24V DC

COUNTER

PHOTO ELECTRIC CONTROLLERS



**VIBRATOR
CONTROLLER**

**VIBRATOR
CONTROLLER**

MODEL	MPC-1061L / MPC-1062L	MVC-72N	MVC-7210
Dimension (HxWxD) mm	96 x 96 x 52	72 x 72 x 45	72 x 72 x 85
Panel Cutout (mm)	92 x 92	68 x 68	68 x 68
DISPLAY	16 Character by 2 line with GREEN back light LCD display		
INPUT	Input 1: 1 or 2 NPN Proximity switch (Factory set) Input 2: Color Mark Sensor	NPN/PNP Proximity Switch	NPN/PNP Proximity Switch
OUTPUT	2 Output (Forward & Reverse Winding), 2A, 110V AC / 230V AC+ Buzzer Output	0-110V AC Corresponding to percentage input.	0-110V AC Corresponding to percentage input.
SPECIFICATION	Memory: Non-Volatile Memory		
	Reset: Manual Reset		
	Supply: For MPC-1061: 110V AC, +10%, 50Hz For MPC-1062: 230V AC, +10%, 50Hz	230V AC $\pm$ 10%, 50Hz	230V AC $\pm$ 10%, 50Hz
	Note	Vibrator load should not be more than 5Amps Range : 1 to 99 %	Vibrator load should not be more than 10Amps Range : 1 to 99 %

CLUTCH BRAKE CONTROLLER

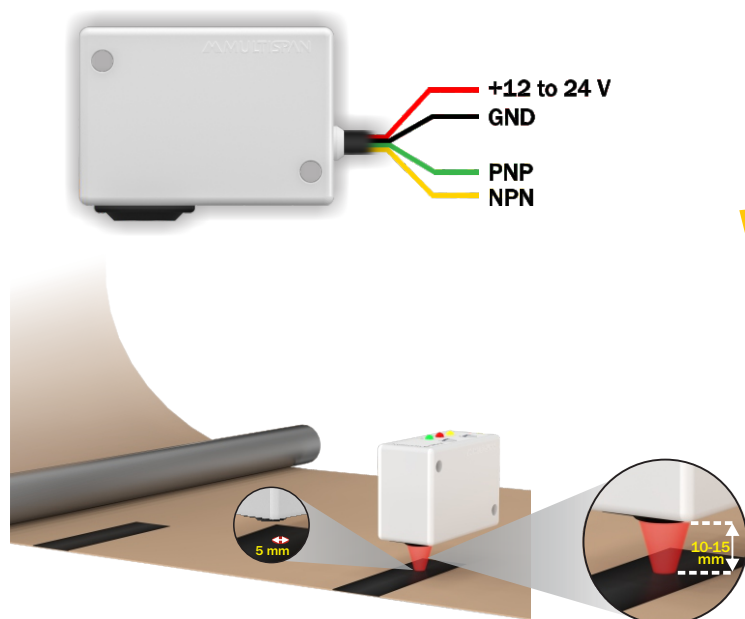
For Packaging Machine Application



MODEL	MC-1003	MMC-1046T
Dimension (HxWxD) mm	96 x 96 x 52	96 x 96 x 54
Panel Cutout (mm)	92 x 92	92 x 92
INPUT	Input 1: NPN Proxy for clutch Input 2: NPN Color mark sensor (CMS) Input 3: Micro Switch	
RANGE	Range: Clutch ON Time : 0-99.99 Sec. : 0-99.99 Sec.	0-99.99 Sec
OUTPUT	Output 1: For Clutch Output 2: For Inching Output 3: For Batch Counter	For Clutch
SPECIFICATION	Reset: Front Reset	
	Memory: Non-Volatile Memory Supply: 100-270V AC (SMPS), 50/60 Hz	

COUNTER

COLOR MARK SENSOR for Packaging Machine & Printing Industries



NEW
LAUNCH



CMS-5X

Model	CMS-5X	
Power Supply	12-24V DC	
Current Consumption	35mA max.@ 24V DC	
Output	NPN/PNP Output	
Output Current	25mA max	
Response Time	2 Millisecond	
Indications	LED 1: Mark LED (Green) LED 2: Output LED (Red) LED 3: Background LED (Yellow)	
Push Buttons	Button 1: Mark Button	Button 2: Background Button
Minimum Mark Output Delay	20ms	
Operating Temperature	-10 to 50C	
Storage Temperature	-20 to 70C	
Operating Distance	10 mm - 15mm	
Minimum Spot Diameter	5 mm	
Emission type	RED (630 nm) GREEN (520 nm) BLUE (465 nm)	
Ambient Light Rejection	Yes	
Vibration	0.5 mm Amplitude, 10 to 55 Hz Frequency	
Housing Material	ABS	
Lens Material	Glass	
Connection	Shielded 4 Wire Cable	

COUNTER

DIGITAL BATCH COUNTER



MODEL	BC-1046D	BC-2046	BC-445
Dimension (HxWxD) mm	96 x 96 x 43	72 x 72 x 50	48 x 48 x 95
Panel Cutout (mm)	92 x 92	68 x 68	45 x 45
INPUT	Input	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	
SPECIFICATION			
	Memory	Non-Volatile Memory	
	Reset	Auto reset / Manual reset / Back reset	
	Supply	230V AC $\pm$ 10%, 50Hz	
		100-270V AC (SMPS), 50/60 Hz	

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 43	72 x 72 x 50	48 x 96 x 110	48 x 48 x 95
Panel Cutout (mm)	92 x 92	68 x 68	46 x 92	45 x 45
INPUT	Input	NPN/PNP Proximity Switch (Configurable) / Encoder (Factory set)		
RANGE	Range	0-99999.9 / 0-999999 / 0-9999.99 / 0-999.999 Meter (Configurable)		
OUTPUT		1Relay 1C/O 5A@230V AC (resistive load)		
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		
	Supply	230V AC $\pm$ 10%, 50Hz		
	Note	In LC-445 if back reset option is required , then Input would be Proximity Sensor (NPN OR PNP) (Factory Set) RS-485 MODBUS Communication is available as per request in 96 X 96 Size (LC-1048-M1)		
		100-270V AC (SMPS), 50/60 Hz		

COUNTER

DIGITAL PROGRAMMABLE COUNTER



MODEL		PC-1044	PC-2044	PC-3006	PC-444	PC-1006D	PC-2006
Dimension (HxWxD) mm		96 x 96 x 54	72 x 72 x 45	48 x 96 x 120	48 x 48 x 70	96 x 96 x 43	72 x 72 x 60
Panel Cutout (mm)		92 x 92	68 x 68	46 x 92	45 x 45	92 x 92	68 x 68
INPUT	Input	NPN/PNP Proximity Switch / Micro Switch (Configurable) / 230V AC Pulse / Encoder (Factory Set)					
	Range	0 - 9999 / 0 - 999.9 Count				0 - 999999 Count	
OUTPUT		1Relay 1C/O 5A, 230V AC (resistive load)					
SPECIFICATION							
	Count Direction	Up / Down (Configurable)					
	Memory	Yes / No (Configurable)					
	Reset	Auto Reset / Manual Reset / Reset at back					
	Supply	230V AC $\pm$ 10%, 50Hz			100-270V AC (SMPS), 50/60 Hz		230V AC $\pm$ 10%, 50Hz
	Note	Dual Set Point, Scale factor & 2 Relay Option Available on customer request in PC-1044,PC-2044.					

DIGITAL PRESETABLE COUNTER

With Thumbwheel Setting



MODEL	TWS-1400F	TWS-2500F
Dimension (HxWxD) mm	96 x 96 x 52	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, 230V AC (resistive load)	
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 (SMPS), 50/60 Hz	

COUNTER

DIGITAL RPM INDICATOR



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 26	48 x 48 x 70
Panel Cutout (mm)		92 x 92	68 x 68	46 x 92	45 x 45

INPUT RANGE SPECIFICATION	Input	NPN/PNP Proximity Switch (Configurable)			
	Range	4 - 5000 RPM			
	Supply	230V AC $\pm$ 10%, 50Hz	100-270V AC (SMPS), 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 26	36 x 72 x 95	38 x 62 x 65
Panel Cutout (mm)		92 x 92	68 x 68	46 x 92	32 x 68	31 x 54

INPUT RANGE SPECIFICATION	Input	NPN/PNP Proximity Switch / Micro Switch (Configurable), 230V AC Pulse / Encoder (Any one factory set)			
	Range	0 To 999999 Count			
	Memory	Non-Volatile Memory			
	Reset	Manual Reset, Back Reset (Optional)			
Supply		230V AC $\pm$ 10%, 50Hz	100-270V AC (SMPS), 50/60 Hz		230V AC $\pm$ 10%, 50Hz

COUNTER SPEED / RATIO INDICATOR



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

MPM-1044 / MPM-2044

96 x 96 x 52 / 72 x 72 x 75
92 x 92 / 68 x 68

RPM-1044 / RPM-2044

96 x 96 x 52 / 72 x 72 x 75
92 x 92 / 68 x 68

INPUT RANGE

Start Pulse

NPN/PNP Proximity Switch (Configurable), Proximity Input (Stretch Ratio Indicator)

OUTPUT

Range

0 to 9999 or 0 to 999.9 MPM (Factory set), 0 to 9999 RPM

SPECIFICATION

Diameter Range

0 to 999.9 MM (Only for MPM / Stretch Ratio MPM)

Accuracy

±1% of FSD

Supply

100-270V AC (SMPS), 50/60 Hz

PROGRAMMABLE COUNTER COUNTER + RPM



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

MMC-1046RD

96 x 96 x 42
92 x 92

MMC-2046R

72 x 72 x 50
68 x 68

INPUT RANGE

Input

NPN/PNP Proximity switch / Micro Switch (Configurable) / 230V AC Pulse(Factory Set)

OUTPUT

Output

1Relay 1C/O 5A, 230V AC (resistive load)

SPECIFICATION

Memory

Non-Volatile Memory

Reset

Auto Reset / Manual Reset / Back Reset

Supply

230V AC ± 10%, 50Hz

PROTECTION RELAY

AUTOMATIC POWER FACTOR CONTROLLER

Intelligent PF Correction Relay

6/8/12/14/16 STAGE APFC RELAY



With
Graphical LCD Display

**14 & 16
Stage Available**

MODEL		APFC-96-L6	APFC-9606	APFC-108	APFC-112
Dimension (HxWxD) mm		96 x 96 x 54	96 x 96 x 54	144 x 144 x 70	144 x 144 x 70
Panel Cutout (mm)		92 x 92	92 x 92	137 x 137	137 x 137
INPUT	Current	50mA to 5AMP AC, (Without CT) (CT Ratio selectable 5/5 A to 9995/5 A) For main CT & capacitor CT		0.01 to 5AMP AC (Without CT) (CT Ratio selectable 5/5 A to 9999/5 A) For main CT & capacitor CT	
	Controlling PF Range	+0.80 (Lag) To -0.80 (Lead)		+1.000 (Lag) To -1.000 (Lead)	
	Min. Operating Current	1% to 10 % of primary CT in PF & KVAR Mode (User selectable) Factory set 3 % of primary CT in all controlling mode			
SENSING	Input Voltage	30 to 290V AC (P-N) CAT III		300 to 520V AC (P-P) CAT III	
		Single CT based sensing True RMS, Scan time 1 Sec. to 999 Sec.		Scan time 1 Sec. to 999.9 Sec.	
OUTPUT		NO-C 6 Relay for capacitor bank		NO-C 8 Relay for capacitor bank + 1 Alarm Relay or 1 Fan Relay	NO-C 12 Relay for capacitor bank + 1 Alarm Relay +1 Fan Relay
	USER PROGRAMMABLE FUNCTIONS	Set PF, Relay Switch ON Time, Control Modes, Mains Primary CT Ratio, Relay Steps to be used ,Capacitor Primary CT Ratio (To be used if actual capacitor value is to be measured at any given time)		Main CT Ratio, Capacitor CT Ratio, Minimum operating Current + scan time, Programable KVAR hysteresis	
SPECIFICATION	Control Mode	Auto, Manual, KVAR (Set capacitor bank value), Rotational		KVAR / Intel / Manual	
	Accuracy	Class 0.5 as per IEC 62053-22		Class 0.5	
	Power Supply	230 V AC ± 20% Supply , 50Hz		300V to 520V AC (P-P) CAT III	

PROTECTION RELAY

EARTH LEAKAGE RELAY & EARTH TO NEUTRAL VOLTAGE



MODEL		ELR-19N	ELR-63	EFR-63
Dimension (HxWxD) mm		96 x 96 x 54	76 x 28 x 85	76 x 28 x 85
Panel Cutout (mm)		92 x 92	DIN Rail Mounting	Din Rail Mounting
INPUT RANGE	Input Signal	30mA To 3AMP AC thru. external CBCT	30mA To 3.00A AC thru external CBCT	Current : 5Amp From CBCT
		30mA To 3.00A AC	30mA To 3.00A AC	
OUTPUT		1 Relay (NO-C-NC) 5A,230V AC (resistive load)	1 Relay (NO-C) 5A,230V AC (resistive load)	1 Relay (5A, 230V AC (Resistance load) Earth Fault Current
SPECIFICATION	Accuracy	Class 0.5		
	Power Supply	100-270V AC (SMPS), 50/60 Hz, Approx 4VA		100 to 270V AC (SMPS), 50/60Hz
	Note	RS-485 MODBUS is available in ELR-19N as per request, CBCT available as per required Inner Diameter		

SINGLE PHASE - CURRENT RELAYS

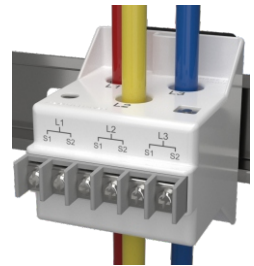


MODEL		CC-12
Dimension (HxWxD) mm		96 x 96 x 54
Panel Cutout (mm)		92 x 92
INPUT	Current	5A AC Direct (CT ratio selectable 5/5A to 1600/5A)
OUTPUT		1 Relay (NO-C-NC) 5A,230V AC (resistive load)
SPECIFICATION	Tripping Facility	High / Low / Inband / Outband / Absolute Low / Absolute Outband Alarm (Configurable)
	Accuracy	Class 0.5
	Power Supply	100-270V AC (SMPS), 50/60 Hz, Approx 4VA

PROTECTION RELAY

PROTECTION DEVICE - 3 PHASE

DINRAIL
MOUNT



MODEL		MPD-192			MPD-152	
Dimension (HxWxD) mm		96 x 96 x 52			75 x 55 x 110	
Panel Cutout (mm)		92 x 92			Din Rail Mounting	
INPUT	Input Signal	3 Ø 4 Wire / 3 Ø 3 Wire				
	Voltage	50 - 520V AC (L-L) , 30 - 300V AC (L-N)				
OUTPUT	Current	60mA to 5A (CT Selection 5A- 6000A Ac)(Additional Leakage Current Measurement thru CBCT in MPD-19 EL)				
		1 st Relay (NO-C-NC) 10 A, 230V AC, (resistive load) 2 nd Relay (NO-C) 5A (with simultaneous actuation)			1 Relay (NO-C-NC) 10 A,230V AC (resistive load)	
PARAMETER	Tripping Facility	Over Current	Under Current	Short Circuit	Lock Rotor Point	Earth Leakage (In MPD 19EL)
		Over Voltage	Under Voltage	Phase sequence	Unbalance	
SPECIFICATION		Over Frequency	Under Frequency	Phase Loss	Neutral Loss	
	Accuracy	Class 1.0				
	Power Supply	100 to 270V AC (SMPS), 50/60Hz				
	Note	MPD-192 is also available in 415V AC ± 10%, 50Hz Power Supply (ON Request)				
		RS-485 MODBUS Communication (Optional) MPD-19 EL-M1				
		Earth leakage features are available(Optional) MPD-19 EL ,CBCT Available As per Required Inner Diameter				
		External CT 30A,60A,100A Available As per Request				

THREE PHASE VOLTAGE & CURRENT PROTECTION RELAY

DINRAIL
MOUNT



MODEL		VPR-126	VPR-3P	CPR-126 (3 CT)	CPR-126-1C (1 CT)
Dimension (HxWxD) mm		75 x 45 x 110	75 x 45 x 110	75 x 45 x 110	75 x 45 x 110
INPUT	Mounting	Din Rail Mounting			
	Input Signal	3Ø 3W / 3Ø 4W		3Ø 3W	1Ø 2W
	Voltage	30 to 300V AC (L-N), 50 to 520V AC (L-L)	160 to 300V AC (L-N) 280 to 520V AC (L-L)		
OUTPUT	Current			0.1 to 5Amp (CT Selection 5/5 To 999/5 A AC)	
		1 st Relay (NO-C-NC) 2 nd Relay (NO-C-NC) (Optional)	1 st Relay (NO-C-NC) 2 nd Relay (NO-C-NC)	1Relay (NO-C-NC)	
PARAMETER	Tripping Facility	Over Voltage	Over Voltage	Over Current	Over Current
		Under Voltage	Under Voltage	Under Current	Under Current
SPECIFICATION		Over Frequency	Over Frequency	Asymmetry	
		Under Frequency	Under Frequency	Single Phase Preventer (SPP)	
		Phase Loss	Phase Loss		
		Phase Sequence	Phase Sequence		
		Asymmetry & Neutral Loss	Asymmetry		
	Accuracy	Class 1.0	No Power Supply to be given separately	Class 1.0	
	Power Supply	100 to 270V AC (SMPS), 50/60Hz		100 to 270V AC (SMPS), 50/60Hz	
	Note	External CT 30A,60A,100A Available with CPR-126 & CPR-126-1C As per Request			

PROTECTION RELAY VOLTAGE MONITOR RELAY



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

VMR-13

96 x 96 x 43
92 x 92

VMR-23

72 x 72 x 45
68 x 68

EN-19N

96 x 96 x 54
92 x 92

INPUT

Input

Voltage : 50 to 520V AC (L-L) 30 to 300V AC (L-N)

OUTPUT

1st Relay 5A, 230V AC (Resistance load) 1st Relay 10A, 230V AC (Resistance load)
2nd Relay (Optional)

00.00 To 10.00 Voltage AC
1 Relay (NO-C-NC)
5A,230V AC (resistive load)

TRIPPING PARAMETER

Over Voltage / Under Voltage
Over Frequency / Under Frequency
Phase Loss / Phase Sequence
Asymmetry & Neutral Loss

POWER SUPPLY

230V AC $\pm 20\%$, 50Hz

50-520V AC, 50/60Hz

100-270V AC, 50/60Hz

Note

RS-485 Modbus Available in EN-19N As Per Request

MULTI CHANNEL CURRENT TRANSDUCER

CT upto 100A

DINRAIL
MOUNT



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

MCS-63

76 x 28 x 116
Din Rail Mounting

INPUT

Input

Current : 2A to 60A Direct
UP to 6 Current Scanner

OUTPUT

RS-485 Modbus

POWER SUPPLY

24V DC

Note

**3CT,4CT & 6CT Available
100 amp also available**

ENERGY

MULTIFUNCTION METER



MODEL

Dimension (HxWxD) mm
Panel Cutout (mm)

AVH-14

96 x 96 x 54
92 x 92

MFM-13

96 x 96 x 54
92 x 92

INPUT

Input Signal
Voltage
Current

3Ø 3 Wire / 3Ø 4Wire /1Ø 2Wire
Primary : 100V to 520kV (Programmable), Secondary : 100V to 520V (L-L) (Programmable)
Primary : 5A to 6000A (Programmable), Secondary : 5A/ 1A (Programmable)

PARAMETER

KW Total
KW Per Phase
WH Total
Power Factor Average (PF)
Power Factor per phase (PF)
KVA Total
Vah Total
Frequency (Hz)
KVAh Total
Varh Total
Load hours
No load hours
RPM

0.000 - 9999 kW
0.000 - 9999 kW
000.000 - 999999 MWh
0.100 - 1.000
0.100 - 1.000
0.000 - 9999 kVA
000.000 - 999999 MVAh
45 - 60 Hz
0.000 - 9999 kVAh
000.000 - 999999 MVAh
9999.59 Hrs/Min.
9999.59 Hrs/Min.
1500 RPM

COMMUNICATION

RS-485 MODBUS (Optional)
Pulse Output (By Default)

SPECIFICATION

Accuracy
Power Supply

For Voltage & Current Class 0.5 / For Power & Energy Class 1.0
100-270V AC (SMPS), 50/60 Hz, Approx 4VA

ENERGY

3 PHASE ENERGY & POWER METER



MODEL		EPM-14	EM-10	EM-1P (Single phase)
Dimension (HxWxD) mm		96 x 96 x 54	96 x 96 x 43	96 x 96 x 43
Panel Cutout (mm)		92 x 92	92 x 92	92 x 92
SPECIFICATION	INPUT	Input Signal Voltage Current		1Ø 2Wire 30 - 300V AC (L - N) 5/5 to 4000/5A AC
		3Ø 4 Wire 300V AC (L-N) / 520V AC (L-L) 5/5 to 6000/5A AC CT Ratio Selectable		
	Reset	KWH Reset by front key		Reset by front key
	Measuring Range	0.000 to 9999 kW (Active power) 0 to 999999 kWh (Active energy)		0 to 99999.9 kWh (Active energy)
	Accuracy	Class 0.5		Class 0.5
Power Supply		230V AC $\pm$ 10%, 50Hz		230V AC $\pm$ 10%, 50Hz
Note		RS-485 Modbus Available in EPM-14 As Per Request		

3 PHASE AND 1 PHASE PANEL METER

VAF Meter



MODEL		AVF-29T	AVF-19D	AVF-133
Dimension (HxWxD) mm		72 x 72 x 45	96 x 96 x 43	96 x 96 x 54
Panel Cutout (mm)		68 x 68	92 x 92	92 x 92
PARAMETER	INPUT	Input Signal Voltage Current		3Ø 4 Wire / 3Ø 3Wire / 1Ø 2 Wire 30 To 300V AC (L-N) / 50 To 520V AC (L-L) Primary : 6000A Secondary : 5A
		3Ø 4 Wire / 3Ø 3Wire / 1Ø 2 Wire 30 To 300V AC (L-N) / 50 To 520V AC (L-L) Primary : 10000A Secondary : 5A		
		Voltage (L-L) Voltage (L-N) Average Current (L1,L2 & L3) Line Current (L1,L2 & L3) Phase Sequence		Average Voltage (L-N) Average Voltage (L-L) Frequency Load Hour/No Load Hour RPM
		Voltage (L-L) Voltage (L-N) Average Current (L1,L2 & L3) Line Current (L1,L2 & L3) Phase Sequence		Average Voltage (L-N), Average Voltage (L-L), Frequency, Load Hour, RPM
	SPECIFICATION	Accuracy Power Supply		Class 0.5 100 To 270V AC(SMPS), 50/60Hz
		Class 0.5 230V AC 50Hz		Class 0.5 100 To 270V AC(SMPS), 50/60Hz

Note: In AVF-29T Range: Primary PT 100V to 520KV, CT Ratio Primary up to 9999 & secondary 5/1A

ENERGY

3 PHASE AMPERE METER



MODEL		AMP-19	AMP-13	AMP-23
Dimension (HxWxD) mm		96 x 96 x 43	96 x 96 x 43	72 x 72 x 45
Panel Cutout (mm)		92 x 92	92 x 92	68 x 68
SPECIFICATION	INPUT	Current	0.5A to 5A Primary : 5A to 6000 AC CT Selction Secondary : 5A	0.5A to 5A Primary : 5A to 6000 AC CT Selction Secondary : 5A
	Accuracy	Class 0.5	Class 0.5	Class 0.5
	Power Supply	230V AC $\pm$ 10%, 50Hz	100-270V AC (SMPS), 50/60 Hz	100-270V AC (SMPS), 50/60 Hz
	Note	RS-485 Modbus Available in AMP-13		

3 PHASE VOLT METER



MODEL		VOLT-19	VOLT-13	VOLT-23
Dimension (HxWxD) mm		96 x 96 x 43	96 x 96 x 43	72 x 72 x 45
Panel Cutout (mm)		92 x 92	92 x 92	68 x 68
SPECIFICATION	INPUT	Voltage	50 to 520V AC (L-L)	50 to 520V AC (L-L) 30 to 300V AC (L-N)
	Accuracy	Class 0.5	Class 0.5	Class 0.5
	Power Supply	100-270V AC (SMPS), 50/60 Hz	230V AC $\pm$ 10%, 50Hz	100-270V AC (SMPS), 50/60 Hz
			Primary : 100 to 999Kv AC (L-L)(Selectable) Secondary : 100 to 520V AC (L-L) (Selectable)	Primary : 100 to 999Kv AC (L-L)(Selectable) Secondary : 100 to 520V AC (L-L) (Selectable)

SINGLE PHASE AC PANEL METER VOLT / AMP Meter



MODEL	AV-14/11V	AV-24/21V	AV-34/31V	AV-41CT/41A/41V
Dimension (HxWxD) mm	96 x 96 x 42	72 x 72 x 35	48 x 96 x 26	48 x 48 x 46
Panel Cutout (mm)	92 x 92	68 x 68	46 x 92	45 x 45
INPUT				
Ampere (AC)	5A AC Direct			Primary: 5/5A to 2000/5A AC
CT Ratio	Primary: 5/5A to 4000/5A AC			
Volatge (AC)	30 to 500V AC			
SPECIFICATION				
Accuracy	Class 0.5			
Power Supply	230V AC $\pm 10\%$, 50Hz			
Note	30A AC Direct CT Available at back side (AV-11A, AV-21A, AV-31A, AV-41A)			

SINGLE PHASE AC PANEL METER VOLT + AMP meter



MODEL	AV-12	AV-22	AV-33	AV-44
Dimension (HxWxD) mm	96 x 96 x 43	72 x 72 x 60	48 x 96 x 65	48 x 48 x 46
Panel Cutout (mm)	92 x 92	68 x 68	46 x 92	45 x 45
INPUT				
Current Input	Primary: 5/5A to 2000/5A AC			30.0A AC Direct
Voltage Input	30 to 500V AC			30 to 500V AC
SPECIFICATION				
Accuracy	Class 0.5			
Power Supply	230V AC $\pm 10\%$, 50Hz			
Note	30A AC Direct CT Available at back side			

ENERGY

DC PANEL METER

VOLT / AMP Meter



MODEL	AV-14DA/14DV	AV-24DA/DV	AV-34DA/34DV	AV-41DV
Dimension (HxWxD) mm	96 x 96 x 43	72 x 72 x 60	48 x 96 x 65	48 x 48 x 70
Panel Cutout (mm)	92 x 92	68 x 68	46 x 92	45 x 45

INPUT	Ampere (DC)	0 to 9999 Ampere DC Through 75mV DC external shunt		
	Voltage (DC)	19.99V DC / 49.99V DC / 99.99V DC / 199.9V DC / 750V DC (Factory set)		

SPECIFICATION	Accuracy	± 1% Of Full Range ±1 Count
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Power Supply	230V AC ±10%, 50Hz
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Note **0 to 5A DC / 10A DC / 20A DC Direct through shunt is available in model AV-14DZ, 24DZ, 34DZ**

SINGLE PHASE AC PANEL METER



MODEL	PF-11 / PF-13	WM-11	FRQ-11
Dimension (HxWxD) mm	96 x 96 x 54	96 x 96 x 43	96 x 96 x 42
Panel Cutout (mm)	92 x 92	92 x 92	92 x 92

INPUT	Input Signal	1Ø 2 Wire / 3Ø 4 Wire
	Voltage	20 TO 300V / 50 to 520V
	Current	5A AC
CT Selection Secondary Function		

SPECIFICATION

Measuring Range

Accuracy

Power Supply

Note

Class 0.5
230V AC ±10%, 50Hz

0 to 15Kilo Watt
Class 0.5
230V AC ± 10%, 50Hz

**Also available in 199.9 Watt Range
1Relay on kW is available in WM-11**

50.0 HZ
Class 0.5
230V AC ± 10%, 50Hz

ENERGY

DC PANEL METER

VOLT / AMP Meter



MODEL		MFM-14DC
Dimension (HxWxD) mm		96 x 96 x 54
Panel Cutout (mm)		92 x 92
INPUT	Ampere (DC)	0 to 9999A DC Through 75mV DC external shunt
	Voltage (DC)	0 to 750V DC
	Watt (DC)	0000 to 7499 KW DC
SPECIFICATION	Accuracy	± 1% Of Full Range ±1 Count
	Power Supply	100 - 270V AC , 50/60 Hz
	Note	RS-485 & Relay available on request



MODEL		DC-14	DC-24	VAW-34DC
Dimension (HxWxD) mm		96 x 96 x 54	72 x 72 x 45	48 x 96 x 26
Panel Cutout (mm)		92 x 92	68 x 68	46 x 92
INPUT	Ampere (DC)	0 to 9999 Ampere DC Through 75mV DC external shunt		
	Voltage (DC)	0 to 750V DC		
	Watt (DC)	0000 to 7499 KW DC		
SPECIFICATION	Accuracy	± 1% Of Full Range ±1 Count		
	Power Supply	100 - 270V AC , 50/60 Hz		

JUMBO DISPLAY

JUMBO DISPLAY INDICATORS

Single & Double Side



8" Display

4" Display

MODEL		PTC-8004	PIC-6004A/ MSI-6004/ UTI-6004
Dimension (HxWxD) mm		330 x 630 x 50	160 x 380 x 50
INPUT	Input	0-10V DC / 4-20mA DC / 0-20mA DC (Configurable) , Pulse through Encoder/Proximity (Factory Set) J/ K/ PT-100 2Wire 3Wire (Configurable), RS-485 MODBUS.	
	Range	J (0°C - 400°C), K (0°C - 1200°C) , PT-100 2Wire or 3Wire (-99.9°C - 400.0°C), (-999 to 9999, 0 to 9999 Count For Analog Input),	
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	100-270V AC (SMPS), 50/60 Hz / 24V DC (Factory Set)	
	Note	1) For Analog Input model : PIC 8004A / PIC 6004A / PIC 3004A	
		2) For Proximity Input Model : PC 6004 / MPM 6004 / RPM 6004	
3) For Temperature Input Model : UTI 3004 / UTI 6004			

PROGRAMMABLE JUMBO DISPLAY COUNTER

4" Display

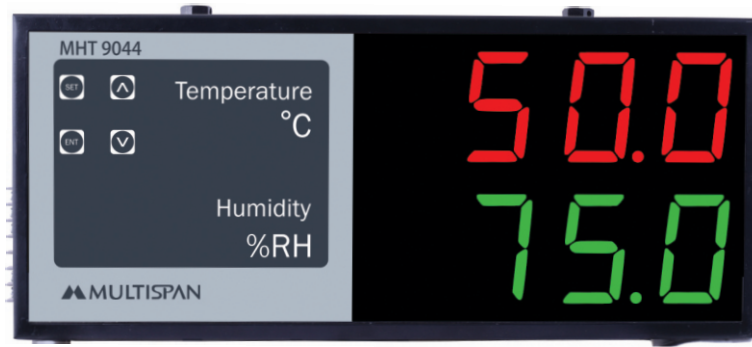


MODEL		PC-6006 (Single Side)
Dimension (HxWxD) mm		160 x 570 x 50
Display		Single Display: 7 Segment, 6 Digit, 4" Red Led Display
INPUT	Input	NPN/PNP Proximity switch & Micro Switch (Configurable)
	Range	0-999999 Count
OUTPUT	Output	1Relay 1C/O 5A,230V AC (resistive load) or SSR Drive O/P 12V DC, 20mA(Optional)
SPECIFICATION	Memory	Non-Volatile Memory
	Reset	Auto / Manual Reset / Back reset
	Supply	100-270V AC (SMPS), 50/60 Hz
	Note	RS-485 Input available as per request

JUMBO DISPLAY

HUMIDITY + TEMPERATURE CONTROLLER

2.25" Display



MODEL MHT-9044 (Humidity + Temp. Controller)

Dimension (HxWxD) mm 160 x 380 x 50

Display

Upper: 7 Segment, 4 Digit, 2.25" Red Led Display - Temperature

Lower: 7 Segment, 4 Digit, 2.25" Green Led Display - Humidity

INPUT

Input

S-1: PT-100 2Wire or 3Wire (RTD) S-2: Humidity Sensor

Range

PT-100 2Wire or 3Wire (-99°C to 400°C)

Humidity Sensor

OUTPUT

Output 1

1st Relay for Temperature and 2nd Relay for Humidity.

SPECIFICATION

Control Action

ON-OFF

Accuracy

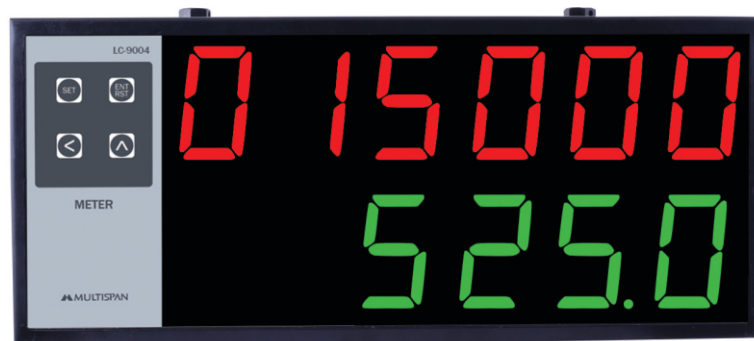
±1% of FSD

Supply

100-250V AC (SMPS), 50/60 Hz

PROGRAMMABLE JUMBO LENGTH COUNTER

2.25" Display



MODEL LC-9004

Dimension (HxWxD) mm 160 x 380 x 50

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, 230V AC (resistive load) or SSR12V max 20mA DC 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 (SMPS), 50/60 Hz

Note

RS-485 Input / Output available as per request

JUMBO DISPLAY

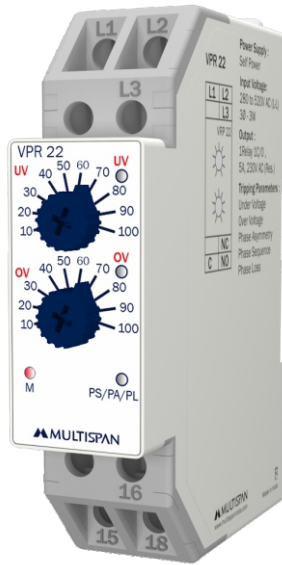
JUMBO DISPLAY SELECTION GUIDE

Single & Double Side

Sr.No	Product model	Display Digit	Input	Display Parameter
1	PIC-6004A	4	4-20mA/0-10V/0-20mA DC	Process Value (-999 to 9999)
2	UTI-6004	4	J/K/PT-100	Temperature
3	PTC-6004	4	4-20mA/0-10V/0-20mA DC/ J/K/PT-100	Process Value(-999 to 9999)/ Temperature
4	PC-6004	4	NPN/PNP Proximity	Count
5	RPM-6004	4	NPN/PNP Proximity	RPM
6	MPM-6004	4	NPN/PNP Proximity	MPM
7	RS-6004	4	RS-485	Numeric Value
8	LC-9004	6+4	NPN/PNP Proximity	Total Length & MPM
9	MHT-9044	4+4	PT-100 + RH Sensor	Temperature & Humidity
10	PC-6006	6	NPN/PNP Proximity	Count
11	RS-6006	6	RS-485	Numeric Value
12	PTC-8004 (8 Inch Display)	4	4-20mA/0-10V/0-20mA DC/ J/K/PT-100	Process Value(-999 to 9999)/ Temperature



DIN RAIL PROTECTION RELAY 22 ENERGY SERIES



MODEL

Dimension (HxWxD) mm

Mounting

VPR-22

90 x 22.5 x 67.5

Din rail mounting

INPUT

Input

Input Voltage : 280 to 520V AC (L-L)
3Ø-3W

OUTPUT

1 Relay (5A, 230V AC (Resistance load))

TRIPPING PARAMETER

Under Voltage
Over Voltage
Phase asymmetry
Phase sequence
Phase loss

POWER SUPPLY

No Power Supply to be given separately

MODEL

Dimension (HxWxD) mm

Mounting

SPP-22 (Single Phase Preventor)

90 x 22.5 x 67.5

Din rail mounting

INPUT

Input

Input Voltage : 280 to 520V AC (L-L)
3Ø-3W

OUTPUT

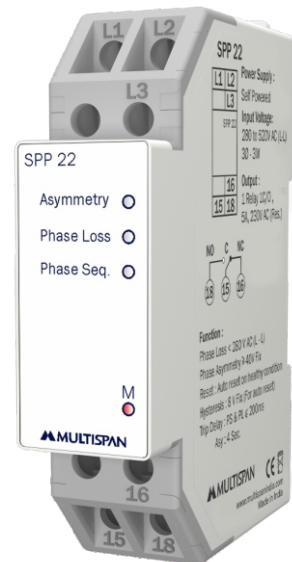
1 Relay (5A, 230V AC (Resistance load))

TRIPPING PARAMETER

Phase loss
Phase sequence
Phase asymmetry

POWER SUPPLY

No Power Supply to be given separately



MODEL

Dimension (HxWxD) mm

Mounting

CPR-22 (1 CT)

90 x 22.5 x 67.5

Din rail mounting

INPUT

Input

Input Current : 100mA to 5A AC

OUTPUT

1 Relay (5A, 230V AC (Resistance load))

TRIPPING PARAMETER

Under Current
Over Current

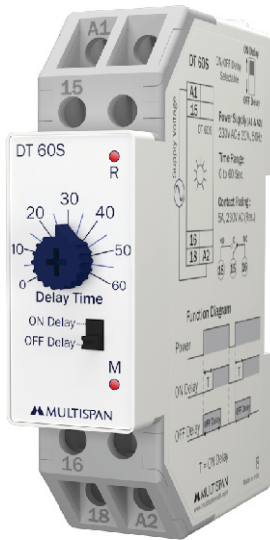
POWER SUPPLY

230V AC $\pm 20\%$, 50Hz



ANALOG TIMERS

22 TIMER SERIES



MODEL

DT 10S, DT 30S, DT 60S, DT-30M ON / OFF Delay Timer

Dimension (HxWxD) mm
Mounting

90 x 22.5 x 67.5
Din rail mounting

RANGE

Time Range

0 to 10 Sec (For DT 10S)
0 to 30 Sec (For DT 30S)
0 to 60 Sec (For DT 60S)
0 to 30 Min (For DT 30M)

OUTPUT

1 Relay 1C/O, 5A 230V AC (Resistive Load)

POWER SUPPLY

230V AC $\pm 20\%$, 50Hz / 24V DC / 415V AC
(Factory set)

MODEL

DI-22 - ON / OFF Delay Timer

Dimension (HxWxD) mm

90 x 22.5 x 67.5

Mounting

Din rail mounting

RANGE

Time Range

0.1 Sec to 10 Sec/Min/Hour

OUTPUT

1 Relay 1C/O, 5A 230V AC (Resistive Load)

POWER SUPPLY

230V AC $\pm 20\%$, 50Hz & 24V AC/DC



MODEL

DI-22U - ON / OFF Delay Timer

Dimension (HxWxD) mm

90 x 22.5 x 67.5

Mounting

Din rail mounting

RANGE

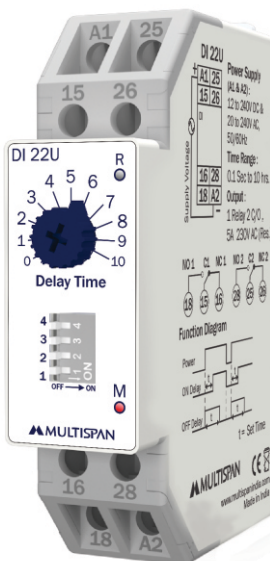
0.1 Sec to 10 Sec/Min/Hour

OUTPUT

1 Relay 2C/O, 5A 230V AC (Resistive Load)

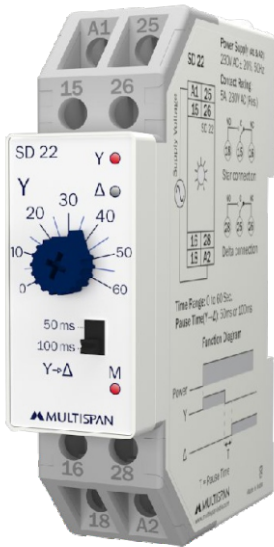
POWER SUPPLY

12V to 240V DC &
20V to 240V AC, 50/60Hz



ANALOG TIMERS

22 TIMER SERIES



MODEL

Dimension (HxWxD) mm
Mounting

SD-22

90 x 22.5 x 67.5
Din rail mounting

RANGE

Time Range : 0 to 60 Sec
Pause Time : 50 ms or 100 ms Selection
by front key

OUTPUT

2 Relay O/P
(1C/O, 5A 230V AC, Resistive Load)
1st Relay for star connection &
2nd Relay for delta connection

POWER SUPPLY

230V AC $\pm 20\%$, 50Hz

Note

415V AC Supply Available on Request

MODEL

Dimension (HxWxD) mm
Mounting

CYL-22

90 x 22.5 x 67.5
Din rail mounting

RANGE

Time Range

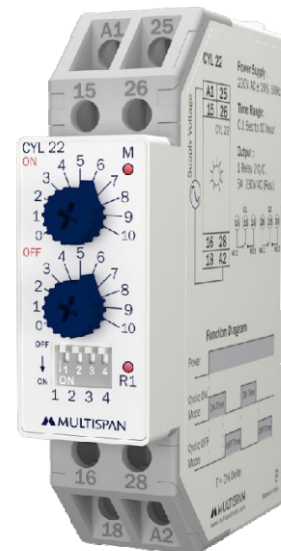
0.1 Sec to 10 Sec/Min/Hour

OUTPUT

1 Relay O/P
(2C/O, 5A 230V AC (Resistive Load)

POWER SUPPLY

230V AC $\pm 20\%$, 50Hz



MODEL

Dimension (HxWxD) mm
Mounting

FRT-22

90 x 22.5 x 67.5
Din rail mounting

RANGE

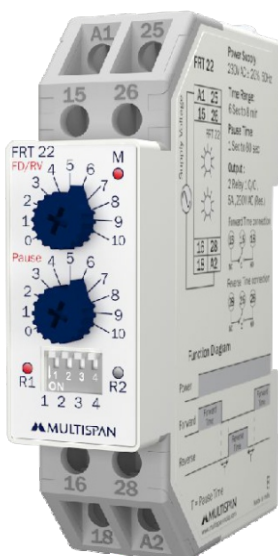
Forward & Reverse Time Range : 0.1 Sec to 10 Hour
Pause Time : 1 Sec to 100 Sec

OUTPUT

2 Relay O/P (1C/O, 5A 230V AC (Resistive Load)
1st Relay for Forward Time &
2nd Relay for Reverse Time

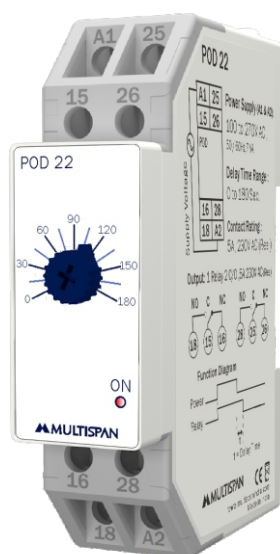
POWER SUPPLY

230V AC $\pm 20\%$, 50Hz



ANALOG TIMERS

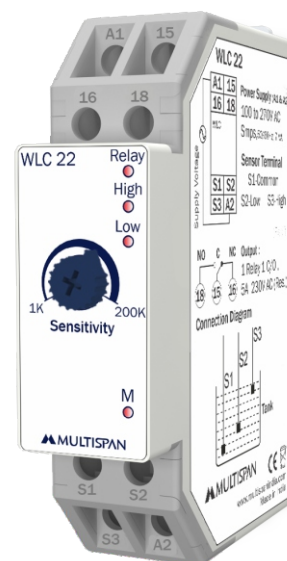
22 TIMER SERIES



MODEL		POD-22 - Power OFF Delay Timer
Dimension (HxWxD) mm		90 x 22.5 x 67.5
Mounting		Din rail mounting
RANGE	Time Range	0 to 180 Sec
OUTPUT		1 Relay 2C/O, 5A 230V AC (Resistive Load)
POWER SUPPLY		100 to 270V AC $\pm 20\%$, 50/60Hz

MODEL	WLC-22 - Water Level Controller
Dimension (HxWxD) mm	90 x 22.5 x 67.5
Mounting	Din rail mounting

INPUT	3 nos. prods S1 : Common, S2 : Low, S3 : High
OUTPUT	1 Relay 1C/O, 5A 230V AC (Resistive Load)
SENSITIVITY	1 to 200 kilo ohms
TRIP DELAY	0.5 Sec (Approx)
POWER SUPPLY	100 to 270V AC $\pm 20\%$, 50/60Hz





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



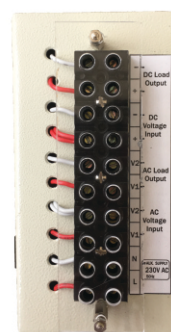
TD-13B
0.5 HP, 1.0 HP



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

DESCRIPTION	MODEL	W x H x D (mm)	RANGE
Panel Mounting Type	TD-144	140 x 140 x 190	0.5, 1, 2 HP
Wall Mounting Mould Type	TD-13M	170 x 235 x 85	0.5, 1, HP
	TD-13M	210 x 285 x 110	2, 3 HP
Wall Mounting Panel Type	TD-13B	165 x 240 x 95	0.5, 1 HP
	TD-13B	230 x 300 x 105	2, 3 HP
Panel Mounting Type	TD-11	96 x 96 x 110	0.5 HP

AC-DC TESTING PANEL



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

MODEL		AC POWER METER	DC POWER METER
Dimension (HxWxD) mm		153 x 280 x 80	
PARAMETER		10-300V AC 10mA-5.000 Amp AC 0-1500 Watt 0-1.000 PF	5-150V DC 10mA-5.000 Amp AC 0-750 Watt
SPECIFICATION			0-100.0%
	Accuracy	Class 1.0	
	Power Supply	230V AC $\pm 10\%$, 50Hz	



Features **SSR**

- Control Input Voltage : 4-32V DC / 4-16mA
- Load Output Voltage : 24-480V AC
- Zero Cross over SSR Design
- Max Load Current : 25A / 40A / 50A / 70A
- Input LED Indication
- PIV : 800V

Product code	Input	Output	
		Voltage	Current using Heat sink
RS-25A	4-32V DC	24-480V AC	16A
RS-40A	4-32V DC	24-480V AC	18A
RS-50A	4-32V DC	24-480V AC	32A
RS-70A	4-32V DC	24-480V AC	44A

Note : Use Heat sink when load current is above 10A.



Features **SMPS**

- Input Voltage : 100V-240V AC
- Output Voltage : 24V DC,5A
- Rated Power : 120W
- Size : 105X45X110 (Din Rail)
- Protection Available : Overload, Over voltage, Output short circuit, Over Temperature

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