



Precise Process Automation

[illegible]

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7" HMI InBuilt PLC



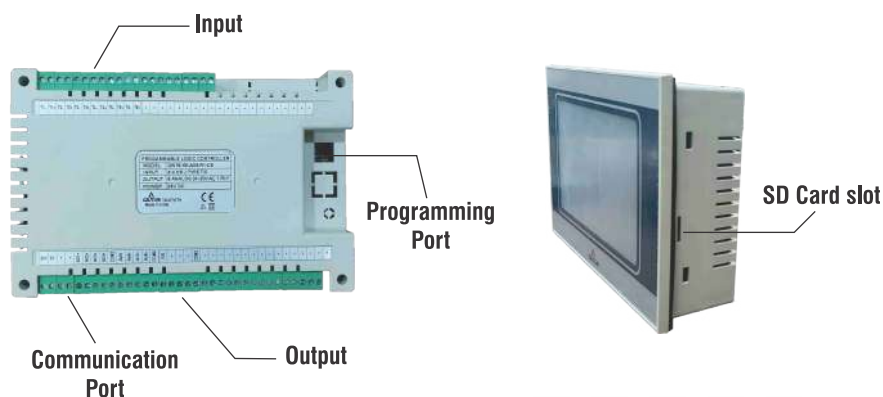
DW Series Combo HMI + PLC



DW-7S

Processor	32 bit multitasking processor
Memory	128 mb flash memory
Program Capacity	32 Kb
Execution Speed	< 0.2 MicroSec
Data Register	8 K Words
Display	7" TFT
Resolution	800 x 480 Pixels
Color	65535 colors
Backlight	led
Touchpanel	Resistive Touch panel
RTC	inbuilt RTC & Buzzer
Program Download	
PLC	USB / COM PORT
HMI	SD CARD
Supported File	Video / Audio / GIF's / QR code
Serial Port	1 Serial Port Modbus RTU (Master / Slave configurable Mode) baud rate up to 115.2 Kbps
Inbuilt I/O's	8*DI / 8*DO (Max 48 Point)
Expansion I/O's	
DI	Upto Max -19 DI (NPN Type)
DO	Upto Max -24 DO (Relay or Transistor) Relay : 3 Amp / 230 VAC
Temp	Upto Max-12 Ch T/C or RTD Predefined
Analog Input	Upto Max-12 CH Analog Input (0 - 10 VDC / 4 -20 mA Predefined)
Analog Output	Upto Max-8 CH Analog Output (0 - 10 VDC / 4 -20 mA Predefined)
Highspeed	Upto Max-4 CH HighSpeed Pulse Output (64 KHz)
Current	Upto Max-4 CH Current Measure with CT (0 - 100 A AC)
COM / RS PORT	Upto Max-2CH RS-485 PORT
Shell Color	Siemens grey
Shell Material	ABS
Mounting	Panel Mounting with Side Bracket
Dimension	210 x 150 x 50 MM (W x H x D)
Panel Cutout	200 x 140 MM (W x H)
Power Supply / Consumption	24 VDC, > 5 W
working Environment	Temp : 0 -50°C / RH : 35 - 85 % (Non- Condensation)
Protection	IP-65 (Front Panel)

Back side image



4.3" HMI InBuilt PLC

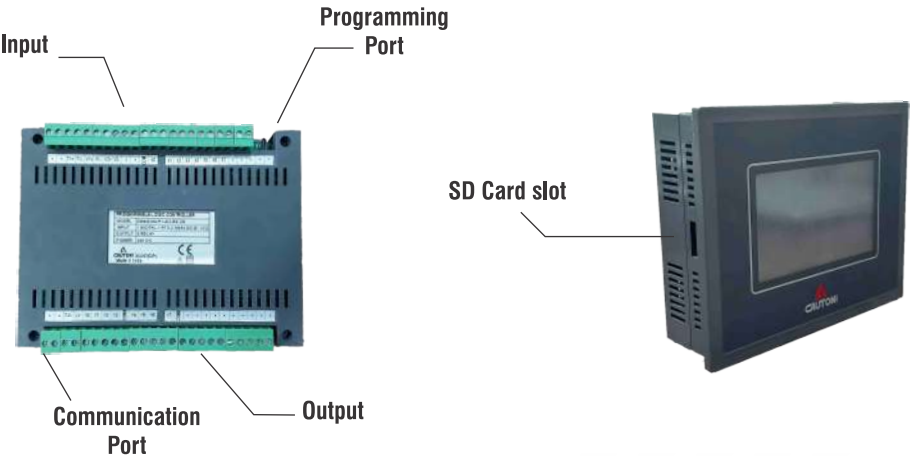
DW Series Combo HMI + PLC



DW-7S

Processor	32 bit multitasking processor
Memory	128 mb flash memory
Program Capacity	16 Kb
Execution Speed	< 0.2 MicroSec
Data Register	8 K Words
Display	4.3" TFT
Resolution	480 x 272 Pixels
Color	65535 colors
Backlight	led
Touchpanel	Resistive Touch panel
RTC	inbuilt RTC & Buzzer
Program Download	
PLC	USB / COM PORT
HMI	SD CARD
Supported File	Video / Audio / GIF's / QR code
Serial Port	Serial Port Modbus RTU (Master / Slave configurable Mode) baud rate up to 115.2 Kbps
Inbuilt I/O's	8*DI / 8*DO (Max 32 Point)
Expansion I/O's	
DI	Upto Max -12 DI (NPN Type)
DO	Upto Max -16 DO (Relay or Transistor) Relay : 3 Amp / 230 VAC
Temp	Upto Max -4 Ch T/C or RTD Predefined
Analog Input	Upto Max -4 CH Analog Input (0 - 10 VDC / 4 -20 mA Predefined)
Analog Output	Upto Max -8 CH Analog Output (0 - 10 VDC / 4 -20 mA Predefined)
Highspeed	Upto Max -4 CH HighSpeed Pulse Output (64 KHz)
Shell Color	Grey
Shell Material	ABS
Mounting	Panel Mounting with Side Bracket
Dimension	164 x 129 x 43 MM (W x H x D)
Panel Cutout	157 x 122 MM (W x H)
Power Supply / Consumption	24 VDC, > 5 W
Working Environment	Temp : 0 -50°C / RH : 35 - 85 % (Non- Condensation)
Protection	IP-65 (Front Panel)

Back side image



PLC



HPC-14P12R3T



HPC-12P8R

Processor	32 bit multitasking processor	
Program Capacity	32 Kb	16 Kb
Execution Speed	< 0.2 MicroSec	
Data Register	8 K Words	
Program Download		
PLC	USB / COM PORT	
Serial Port	Serial Port Modbus RTU (Master / Slave configurable Mode) baud rate up to 115.2 Kbps	
I/O's	14*DI / 12*DO / 3-CH Temp (29 Point)	
DI	(NPN Type)	12*DI / 8*DO (20 Point)
DO	Relay or Transistor, Relay : 3 Amp / 230 VAC	
TEMP	3 CH T/C	None
Shell Color	Grey	
Shell Material	ABS	
Mounting	Channel Mounting	
Dimension	95 x 120 x 80 mm	95 x 85 x 80 mm
	H x W x D	
Power Supply	24 VDC	
Power Consumption	> 3 W	
Working Environment	Temp : 0 -50°C / RH : 35 - 85 % (Non- Condensation)	
Protection	IP-65 (Front Panel)	



HPC-Extension

Economy Series PLC



MPC-M8R8



MPC-M12R12

Processor	32 bit multitasking processor	
program Capacity	16 Kb	
Execution Speed	< 0.2 MicroSec	
Data Register	512 Words	
program download	COM PORT	
Serial Port	Serial Port Modbus RTU (Slave) baud rate up to 115.2 Kbps	
I/O's	8*DI / 8*DO (16 Point)	12*DI / 12*DO (24 Point)
DI	(NPN Type)	
DO	8 DO (Relay or Transistor), Relay : 3 Amp / 230 VAC	
TEMP	Upto Max 2 CH TC / Analog	
AO	Upto Max 4 CH Analog Output	
shell Color	Grey / Black	
shell Material	ABS	
Mounting	Channel Mounting	
Dimension	95 x 95 x 40 mm (H x W x D)	95 x 125 x 40 mm (H x W x D)
Power Supply	24 VDC	
power Consumption	> 3 W	
working Environment	Temp : 0 -50°C / RH : 35 - 85 % (Non - Condensation)	
protection	IP-65 (Front Panel)	

Economy HMI



DL-4V



Model description	DL-4V , TFT LCD Screen
Core processor	400M SOC processor
Protocol Type	MODBUS RTU protocol
Size	4.3 inch
Resolution	480 x 272 Pixels
Touch type	Resistive touch screen
Touch mode	Single point, sliding touch
Touch times	At same pixel, more than 1 million times per point.
Color	65K color, 16-bitRGB
Voltage	4.5-30V
Power consumption	Dormancy: 0.2W.
COM	RS485
Baud rate	RS485:1200~11.520 MBPS
Local download of pictures	SD card, serial port
Firmware local / remote upgrade	SD card local upgrade / support user motherboard remote serial port upgrade screen firmware.
Real-time clock (RTC)	Support clock, timer, countdown and other functions.
Screen effective display area (AA)	96.8 x 55.5 mm LXW
Product Size(LxWxH)	139.1mm*87.1mm*21.8mm (MAX)
Dimension size	130.0mm*78.1mm
Match host computer software	VisualTFT®

MULTI CHANNEL MODULE

HPE

MULTI CHANNEL TEMPERATURE MODULE



HPE-M8Q9-TRRR

Input	J / K Type of Thermocouple or RTD or Analog predefined
Measunng Range	0 - 1000 °C
Resolution	0.1 °C
Accuracy	± 0.5 % OF FS
Control Action	PID / TWO -WAY PID / ON-OFF
Output	8 Relay / Analog Predefined
Relay	Relay AC 220 V / 30 VDC
Logic Level	On : 24 VDC OFF : 0.5 VDC / 30 mA, Load Resblance> 1 K
Alarm	1 Alarm Relay
Alarm Type	High / Low Alarm
Expansion	Alarm / Cooling Output Module can be extended
Communication	RS-485 / Modbus Communication, Auto Baud Detection, Baud Rate up to 115.2 KBPS
Channel	8 / 4 channel
Sampling Time	300 MS
Power Supply	24 VDC
Mounting	Channel Mounting
Working Temperature	0 ~ 50 °C
Humidity	35 ~ 85 % RH
Case Size	112 X 109 X 72 MM

Expandable Module



Current Module

HPE-CT8



Relay Module

HPE-EX-8R



SCR Output Module

HPE-PHA-8

	CURRENT MEASURE MODULE	RELAY MODULE	SCR MODULE
Input/ Output	Current Transducer	CHANNEL : 8 RELAY	8 Channel SCR Module
Measuring Range	0 - 100.0 A AC	HPE Expansion Module	GATE output
Resolution	0.1 A	Selectable Alarm Mode	Phase Shift Control
Accuracy	± 0.5 % OF FS	Connection : C / NO	Connection : G1 / G2
Indication	Power / Communication		
Communication	RS-485 / Modbus Communication		
Channel	8 channel		
Sampling Time	300 MS		
Power Supply	24 VDC		
Mounting	Channel Mounting		
Working Temperature	0 ~ 50 °C		
Humidity	35 ~ 85 % RH		
Case Size	112 X 109 X 72 MM		

TRIGGER MODULE POWER REGULATOR

THYRISTOR TRIGGER MODULE



TRK

TRK-3A-2011

Input	Support Several Analag Input (0 - 10 VDC or 4 - 20 mA) or external Potentiometer
Function	Soft start / Support Power Limit / Current Limit Function
Control	Zero Cross Output, Phase Shift Output (with Neutral / Without Neutral)
Load	Suitable for single / three phase Resistive and Inductive Load
Load Capacity	Suitable up to 1000 A SCR
Wiring	Support Several Mode of Wiring (Star with Midline, Star Without Midline, Triangle Wiring)
Anti-Interference	Strong Anti-Interference Function and Pass 1800 V Common-mode and differential Mode Experiment
Display / Keyboard	4 Digit Display with 4 Keys to Program
Indication	Power Indication / RUN Indication / On- Line Display for Running Output / Error Message Indication
Protection	Stop-Phase Protection
Mounting	Din Rail Mounting
Supply	AC 85~ 265 V, 50 Hz

TR-SCR

SCR POWER REGULATOR



TR-SCR-175A-P3



TR-SCR-50A-P3

Input	Support Several Analag Input (0 - 10 VDC, 4 - 20 mA selectable)
Control	Zero Cross Output, Phase Shift Output (Without Neutral)
Phase Shift	≤ 175 degree
Mode	Combine Trigger Mode of Pulse and Optocoupler
Load	Suitable for Resistive Load
Load Capacity	20 KW to 120 KW - 1 PHASE / 3 PHASE
Wiring	Support Star Without Neutral / Delta Wiring
Anti-Interference	Strong Anti-Interference Function and Pass 1800 V Common-mode and differential Mode Experiment
Display / Keyboard	4 Digit Display with 4 Keys to Program
Indication	Power Indication / RUN Indication / On- Line Display for Running Output / Error Message Indication
Protection	Stop-Phase Protection / Signal Loss Detection
Soft -Start	Support Soft Start Function with Adjustable Time Limit
Function	Support Power Limit Function
Programmable Function	Max. Output Can be Limit through Programming
Cooling	Natural and Forced Air Cooling as per Load Capacity
Supply	AC 85~ 265 V, 50 Hz
Ambient Temperature	0°C ~ 50 °C

Specification Sheet

Current	Load (KW) 380V	Case Size (mm)			Weight kg	Cooling Method
		L	W	H		
50A	34	210	140	200	5	Natural cooling
70A	47.5	210	140	200	5	Forced air cooling
110A	75	210	140	200	5	Forced air cooling
175A	119	410	140	200	5	Forced air cooling

HOT RUNNER TEMPERATURE CONTROLLER

HRTC

PF 500



1 Zone

Basic Function	Available in single module and multi Zone panel
	Up to 24 Zone Panel Available
	RS- 485 COM is strengthened Function optionally available
Display and Operation	High Bright Display for Temperature and Current Indication
	Auto / Manual / Standby Function for easy operation, Soft Start function
Reliability and Security	Over Voltage / Fuse Brake / TC Brake / Heater Brake / TC Reverse Protection, Front Power On-Off Switch
Specification	
Display	4 digit High Bright Display with Display brightness adjustment
	Temperature and Current Display
Input	J / K type of Thermocouple
Resolution	0.1 / 1 °C
Control Accuracy	± 0.5 °C
Unit	°C / ° F (Selectable)
Control Action	PID / On-Off
Output	15 A / 230 VAC with 15 A Fuse
Soft Start	Power On Soft Start (Default = 3 min, 20 % output and adjustable)
Protection	T/C Open an T/C Reverse Alarm, Over Temperature Protection, Fuse Brake Alarm
	Over Voltage Protection (380 V power misconnection protection)
	Load Break up Protection, Current Limit feature
Power Supply	230 VAC , 50 / 60 Hz
Power Supply Protection	15 Amp Fuse (Optional : 20 A Fuse)
Temperature	0 - 55 °C
Humidity	Up to 90 % RH

Multi Zone HRTC



PROFILE CONTROLLER PID WITH CURRENT MEASURE

**GR 818
GR 858-P**

GR 818 AT 1220



Case Size	48 x 48 x 76	96 x 96 x 72	48 x 48 x 76
Panel Hole Size	46 x 46	91 x 91	46 x 46
Sensor	T/C : K,E,J,S,B,N,R,T, RTD : PT-100 /3 WIRE or Analog (4-20 mA / 0-10 VDC)		
Range Limit	Check Table -1 for Range and Set Point High / Low Limit		
Accuracy	± 0.5 % OF FS		
Sampling Time	300 MS		
Resolution	0.1 °C / 1 °C User Selectable		
Unit	°C / °F User Selectable		
Control Action	PID / TWO -WAY PID / ON-OFF		
Number of Relay	2 / 3 Relay Output / Analog		3 Relay Output
Alarm	High / Low Alarm with (Absolute / Keeping)		High/Low Current Alarm
Auto / Manual Operation	Output Power is increased / Decreased by Up / Down key in Manual Mode		
Current Range			Range up to 100 Amp AC - 1 / 2 Channel CT Input
Current Display			Selection Of Current / SV Indication - for Lower Display
Profile	64 Step		
Ramp	9999 Min User Selectable		
Soak	9999 Min User Selectable		
Function	Run / Hold / Restart Function, Running Stage Indication		
Display / color	4 Digit Dual Display Upper : 4 digit Red Lower : 4 Digit Green Seven Segment Display		
Keyboard	4 keys		
Indication	Indication for Relay Status / Alarm Status / Alarm Information		
Port	Optional RS - 485 / Modbus Protocol		
Mounting	Flush Panel Mounting With Side Clamp		
Power Supply	95 - 270 VAC, 50- 60 Hz , ≥ 5 VA		
Working Environment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)		

**Table -1
Temperature Input**

	Sensor Type	Temperature Range	Sensor Type	Temperature Range
Thermocouple	K	-200 °C ~ 1200 °C	N	-200 °C ~ 1300°C
	E	-200 °C ~ 650 °C	R	-50 °C ~ 1700 °C
	J	-200 °C ~ 850°C	T	-200 °C ~ 400°C
	S	-50 °C ~ 1700°C	W3-25	0 °C ~ 2300°C
	B	0 °C ~ 1800°C	W3-26	0°C ~ 2300 °C
RTD	PT - 100	-200 °C ~ 850 °C	CU-50	-50°C ~ 150 °C



GT-8



GT8-E



GT8-A

Unit : MM

Case Size	48 x 48 x 76	72 x 72 x 72	48 x 96 x 72	96 x 48 x 72	96 x 96 x 72
Panel Hole Size	46 x 46	67 x 67	45 x 91	45 x 91	91 x 91
Sensor	T/C : K,E,J,S,B,N,R,T, W3-25,W3-2 RTD : PT-100 /3 WIRE or Analog:(4-20 mA / 0-10 VDC)				
Range Limit	Check Table -1 for Range and Set Point High / Low Limit				
Accuracy	± 0.5 % OF FS				
Sampling Time	300 MS				
Resolution	0.1 °C / 1 °C User Selectable				
Unit	°C / °F User Selectable				
Control Action	PID / TWO -WAY PID / ON-OFF				
Number of Relay	2 / 3 Relay Output				
Relay	Relay AC 220 V / 30 VDC / 3 A				
Logic Level	On : 12 VDC OFF : 0.5 VDC / 30 mA, Load Resistance ≥ 1 K				
Analog Output	4 - 20 mA / 20 - 4 mA Isolated from input				
Auto / Manual Operation	Output Power is increased / Decreased by Up / Down key in Manual Mode				
Alarm Type	High / Low Alarm with (Absolute / Keeping / Return Difference Mode)				
Application	Heating / Heating + Cooling / Cooling / BOD / COD (Temperature with Timer)				
Display / color	4 Digit Dual Display Upper : 4 digit Red Lower : 4 Digit Green Seven Segment Display				
Keyboard	4 keys				
Indication	Indication for Relay Status / Alarm Status / Alarm Information				
Port	RS - 485				
Protocol	Modbus / RTU				
Mounting	Flush Panel Mounting With Side Clamp				
Power Supply	95 - 270 VAC, 50- 60 Hz , ≥ 5 VA				
Working Environment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)				

Table -1
Temperature Input

	Sensor Type	Temperature Range	Sensor Type	Temperature Range
Thermocouple	K	-200 °C ~ 1200 °C	N	-200 °C ~ 1300°C
	E	-200 °C ~ 650 °C	R	-50 °C ~ 1700 °C
	J	-200 °C ~ 850°C	T	-200 °C ~ 400°C
	S	-50 °C ~ 1700°C	W3-25	0 °C ~ 2300°C
	B	0 °C ~ 1800°C	W3-26	0°C ~ 2300 °C
RTD	PT - 100	-200 °C ~ 850 °C	CU-50	-50°C ~ 150 °C



GT8-B



GT8-D



GT8-C

AK-6 AK-6 Plus



AK6

AK6-Plus

Case Size	48 x 48 x 76	72 x 72 x 72	48 x 96 x 72	96 x 96 x 72
Panel Hole Size	46 x 46	67 x 67	45 x 91	91 x 91
Sensor	T/C : K,E,J,N, S,B,R,T RTD : PT-100 /3 WIRE			
Range Limit	Check Table -1 for Range and Set Point High / Low Limit			
Accuracy	± 0.5 % OF FS			
Sampling Time	300 MS			
Resolution	1 °C		0.1 / 1 °C User Selectable	
Display	4 Digit Dual Display		4 Digit Dual Display	
Unit	°C / °F User Selectable			
Control Action	PID / ON-OFF			
Output	1 Relay + SSR Output			
Relay	Relay AC 220 V / 30 VDC / 3 A			
Logic Level	On : 12 VDC OFF : 0.5 VDC / 30 mA, Load Resistance ≥ 1 K			
Auto / Manual Operation	Output Power is increased / Decreased by Up / Down key in Manual Mode			
Color	Upper : 4 digit Red Lower : 4 Digit Green Seven Segment Display			
Keyboard	4 keys			
Indication	Indication for Relay Status / Alarm Status / Alarm Information			
Mounting	Flush Panel Mounting With Side Clamp			
Power Supply	95 - 270 VAC, 50- 60 Hz , ≥ 5 VA			
Working Enviornment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)			

Table -1
Temperature Input

	Sensor Type	Temperature Range	Sensor Type	Temperature Range
Thermocouple	K	-200 °C ~ 1200 °C	N	-200 °C ~ 1300°C
	E	-200 °C ~ 650 °C	R	-50 °C ~ 1700 °C
	J	-200 °C ~ 850°C	T	-200 °C ~ 400°C
	S	-50 °C ~ 1700°C	W3-25	0 °C ~ 2300°C
	B	0 °C ~ 1800°C	W3-26	0°C ~ 2300 °C
RTD	PT - 100	-200 °C ~ 850 °C	CU-50	-50°C ~ 150 °C



AK6-AKS-800
(8 Amp Phase Output)



AK6-ETS-100
(Relay + SSR Output)



AK6-BKS-400
(Thyristor Output)

AK 3 TC / DTC



AK 3

TC / TC - P

DTC

Case Size	72 x 72 x 72	48 x 48 x 76	96 x 96 x 65	72 x 72 x 45	48 x 48 x 75
Panel Hole Size	67 x 67	46 x 46	92 x 92	67 x 67	46 x 46
Sensor	T/C : K,E,J OR RTD : PT-100 /3 WIRE			T/C : K, J, RTD : PT-100 /3 WIRE	
Range Limit	J (0-400 °C) , K (0-999 °C), PT-100 (-99.9 to 199.9 °C or 0-400 °C)			J (0-400 °C), K (0-999 °C), PT-100 (0-400 °C)	
Accuracy	± 0.5 % OF FS				
Resolution	1 °C				
Unit	°C / °F User Selectable		°C		
Control Action	PID / ON-OFF		PID / ON-OFF or TP / ON-OFF		PID / ON-OFF
Number of Relay	1 Relay + SSR Output				
Output	Relay 220 VAC / 3 A, 12 VDC for SSR				
Display / color	3 Digit Single Display Bright Red Seven Segment Display				
Keyboard	3 keys				
Indication	Indication for Relay Status / SP Inication Status				
Mounting	Flush Panel Mounting With Side Clamp				
Power Supply	230 VAC, 50- 60 Hz, ± 10 %, ≥ 5 VA				
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)				

TC PID + Amp



TC - 4821 / TC - 7221

PID - 7221-A

Case Size	96 x 96 x 50	72 x 72 x 45	48 x 48 x 75	72 x 72 x 75
Panel Hole Size	92 x 92	67 x 67	46 x 46	67 x 67
Sensor	T/C : K,E,J OR RTD : PT-100 /3 WIRE			T/C : K, J
Range Limit	J (0-400 °C), K (0-1200°C), PT-100 (0-400 °C)			J (0-400 °C), K (0-1200°C)
Accuracy	± 0.5 % OF FS			
Resolution	1 °C for J/K type TC, 0.1 °C for RTD			
Current	0-99.9 Amp			
Control Action	PID / ON-OFF			
Output Type	1 Relay + SSR			2 Relay
Output	Relay 220 VAC / 3 A, 12 VDC for SSR			
Display / color	4 Digit Dual Display			4 Digit / 3 Row Display
Keyboard	4 keys			
Indication	Indication for Relay Status			Indication for Relay / Current Indication
Mounting	Flush Panel Mounting With Side Clamp			
Power Supply	230 VAC, 50- 60 Hz, ± 10 %, ≥ 5 VA			
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)			

TEMPERATURE CONTROLLER

STC / SBT

PUSH TO SET



STC - 961

KNOB SETTING



STC - 9611

BLIND CONTROLLER



SBT - 961

Case Size	96 x 96 x 90 72 x 72 x 110	96 x 96 x 90	96 x 96 x 90 72 x 72 x 110
Panel Hole Size	92 x 92 67 x 67	92 x 92	92 x 92 67 x 67
Sensor	T/C : K,E,J OR RTD : PT-100 /3 WIRE Factory set	T/C : J Type	
Range Limit	J (0-400 °C) , K (0-1200 °C), PT-100 (-99.9 to 199.9 °C or 0-400 °C)	J (0-400 °C)	
Accuracy	± 0. 5 % OF FS		
Resolution	1°C For Thermocouple / 0.1°C for RTD		
Control Action	TP or ON-OFF Factory set		
Number of Relay	1 Relay Output		
Display / color	4 Digit Single Display Bright Red Seven Segment Display	Blind Type	
Setting	Push to set type	Knob Setting	
Indication	Indication for Relay Status / T/C Open Indication		
Mounting	Flush Panel Mounting With Side Clamp		
Power Supply	230 VAC, 50- 60 Hz, ± 10 %, ≥ 5 VA		
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)		

STI PIC

TEMPERATURE INDICATOR



STI - 481

PROCESS INDICATOR



PIC - 961



PI - 491

Case Size	96 x 96 x 45	72 x 72 x 45	48 x 48 x 75	48 x 96 x 65
Panel Hole Size	92 x 92	67 x 67	46 x 46	46 x 92
Sensor	T/C : K,J TypeTC RTD : PT-100 factory set		Analog (0-10 VDC / 4 -20 mA / 0 - 20 mA)	
Range Limit	J (0-400 °C), K (0-1200 °C), PT-100 (0-400 °C)		-1999 - 9999 Selectable	0 - 1500 Selectable
Accuracy	± 0.5 % OF FS			
Resolution	1 °C for J/K type TC, 0.1 °C for RTD		(000.0 / 00.00 / 0.000 / 0000 User Selectable)	
Tx Supply			24 VDC Transmitter supply Optional	
Display / color	4 Digit Single Display		4 Digit Single Display	
Keyboard	3 keys		3 keys	
Mounting	Flush Panel Mounting With Side Clamp			
Power Supply	230 VAC, 50- 60 Hz, ± 10 %, ≥ 5 VA			
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)			

TIMER

THUMBWHEEL TIMER

STW
STW-N
STW-U



STW - 961



STW - 961-N



STW - 721-U

Case Size	96 x 96 x 65	72 x 72 x 80	96 x 96 x 50	72 x 72 x 75	96 x 96 x 50	72 x 72 x 75	48 x 48 x 90
Panel Hole Size	92 x 92	67 x 67	92 x 92	67 x 67	92 x 92	67 x 67	46 x 46
Range Limit	99.9 / 999				9.99 / 99.9 / 999		
Unit	Sec. / Min				Sec. / Min. / Hr.		
Mode	On Delay				On / Off Delay		
Set Point	1 Set Point						
Output	1 Relay (2 C/O)						
Description	Relay (5 Amp / 230 VAC)						
Display / color	3 Digit Single Display (0.56" Red)						
Keyboard	Thumbwheel Setting						
Start Input	Power On Start				Potential Free Contact / Power On Start		
Indication	Indication For Relay Status						
Reset	Front Reset				Front / Back Reset		
Counting	Up				Up / Down Programable		
Memory	NO				Selectable Memory option		
Front Protection	Metal Body		ABS Plastic Body				
Mounting	Panel Mounting with side Clamp						
Power Supply	230 VAC, $\pm$ 10 %, 50 Hz						
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)						

UT
SST

UNIVERSAL TIMER



UT-7221



UT-481



SEQUENTIAL TIMER

SST-968

Case Size	96 x 96 x 50	72 x 72 x 45	48 x 48 x 90	48 x 48 x 75	96 x 96 x 85
Panel Hole Size	92 x 92	67 x 67	46 x 46	46 x 46	92 x 92
Range Limit	9.999 / 99.99 / 999.9 / 9999			9.99 / 99.9 / 999	9.999 / 99.99 / 999.9 / 9999
	99.59 Min - Sec. 99.59 Hr. - Min.				
Unit	Sec./ Min./ Hr.			Sec./ Min./ Hr.	Sec./ Min./ Hr.
Mode	On Delay / Preset / Cyclic / Laundry			On Delay / Preset / Cyclic	Cycle / Delay time for each step - Common
					Selection for Skipping stage
Set Point	2 Set Point				4 / 8 Set Point
Output	2 Relay (1 C/O)			1 Relay (1 C/O)	4 / 8 Relay (1 C/O)
Description				Relay (5 Amp / 230 VAC)	
Display	4 Digit Dual Display			3 Digit Single Display	4 Digit Dual Display
Color	Red - Upper / Green - Lower			Red	Red - Upper / Green - Lower
Keyboard	Feather Touch Key Board				
Start Input	Proximity / Potential Free Contact / Power On Start				
Indication	Indication For Relay Status				
Function	Front / Back Reset / Up - Down Count / Memory Selection (Yes/No)				
Front Protection	ABS Plastic Body				
Mounting	Panel Mounting with side Clamp				
Power Supply	90 - 270 VAC, 50 Hz				
Environment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)				

TOTALISER & RPM

DCT
DHM
RPM

COUNT TOTALISER



DCT - 491

HOUR METER



DHM - 56

RPM METER



RPM - 491

Case Size	72 x 72 48 x 96 24 x 51 36 x 72	48 x 96 24 x 51	96 x 96 72 x 72 48 x 96 24 x 51
Panel Hole Size	67 x 67 46 x 92 22 x 48 34 x 70	46 x 92 22 x 48	92 x 92 67 x 67 46 x 92 22 x 48
Range Limit	0-999999 Count		4-5000 RPM
Input	NPN/ PNP Proximity / 230 VAC / 24 VDC		NPN/ PNP Proximity
Function	6 Digit Count Totaliser		4 Digit Rpm Indicator
Sensor Supply	12 VDC / 30 mA		12 VDC / 30 mA
Input Speed	0 - 10 KHz		0 - 10 KHz
Accuracy	± 1 Count		± 1 RPM
Counting	Up		
Display	6 Digit Single Display		4 Digit Single Display
Reset	Front / Back Reset		
Memory	Yes (Non-Volatile Memory)		
Front Protection	ABS Plastic Body		
Mounting	Flush Panel Mounting With Side Clamp		
Power Supply	230 VAC ± 10%, 50 HZ		90-270 VAC, 50 HZ
Environment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)		

RPM CONTROLLER



RC - 721

MPM INDICATOR



MPM - 491

RATIO METER



RM - 491

Case Size	72 x 72 x 65	48 x 96 x 45	48 x 96 x 45
Panel Hole Size	67 x 67	46 x 92	46 x 92
Range Limit	4-5000 RPM	0-999.9 MPM	0-999 MPM (Ratio)
Input	NPN, PNP proxy	NPN, PNP proxy	NPN, PNP proxy (2 Input)
Function	Scale Factor / High & Low Set Point	Dia meter Entry	
Sensor Supply	12 VDC / 30 mA		
Input Speed	0 - 10 KHz		
Accuracy	± 1 Count	±1 RPM	± 1 RPM
Control Action	ON-OFF		
Output	2 Relay (220VAC / 5Amp)		
Display	4digit Dual Display, Bright Red Seven Segment	4digit Single Display, Bright Red Seven Segment	
Keyboard	4 Keys	3 keys	
Indication	Indication For Relay Status		
Front Protection	ABS Plastic Body		
Mounting			
Power Supply	85 to 270 VAC smps supply	230vac linear supply ± 10%	
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)		

COUNTER

STW-C
PC
BC

THUMBWHEEL COUNTER



STW - 721C

PRESET COUNTER



PC-961

BATCH COUNTER



BC-961

Case Size	96 x 96 x 45	72 x 72 x 65	96 x 96 x 45	72 x 72 x 65	48 x 48 x 75
Panel Hole Size	92 x 92	67 x 67	92 x 92	67 x 67	46 x 46
Range Limit	0-99999 Count		0-9999 Count		0-999999 Count
Input	NPN/ PNP Proximity, Potential Free Contact, Photocell				
Sensor Supply	12 VDC / 30 mA				
Input Speed	0 - 10 KHz				0 - 10 KHz
Accuracy	$\pm$ 1 Count		$\pm$ 1 Count		$\pm$ 1 RPM
Function	3/4/5 Digit Counter		4 Digit Counter		6 Digit Counter / 4 Digit RPM
Output	1 Relay / Buzzer - NO/ NC (230 VAC / 5 AMP), Buzzer - 12 VDC, 10 mA				
Counting	Up		Up / Down		Up
Display	Single Display		4 Digit Dual Display		6 Digit Upper / 4 Digit Lower Display
Keyboard	Thumbwheel Setting		4 Keys		
Reset	Auto / Manual - Front / Back Reset				
Memory	Yes (Non-Volatile Memory)				
Front Protection	ABS Plastic Body				
Mounting	Flush Panel Mounting With Side Clamp				
Power Supply	230 VAC $\pm$ 10%, 50 HZ		90-270 VAC, 50 HZ		230 VAC $\pm$ 10%, 50 HZ
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)				

LC
TBC
SMC



LENGTH COUNTER



TABLET COUNTER



CLUTCH & BREAK CONTROLLER

Case Size	96 x 96 x 45	72 x 72 x 65	48 x 48 x 75	96 x 96 x 90	96 x 96 x 45
Panel Hole Size	92 x 92	67 x 67	46 x 46	92 x 92	92 x 92
Range Limit	0-99999.9 Meter			0-99999999 Tablet	0-999999 Count
Input	NPN/ PNP Proximity, Potential Free Contact, Photosell				Proximity, Color mark Sensor
Sensor Supply	12 VDC / 30 mA				
Input Speed	10 KHz				
Accuracy	± 1 Count				
Function	Diameter / PPR Setting		Total Table, selectable Station / Rotor Parameter		Clutch / Brake
Output	1 Relay				2 Relay (Motor / Cutter)
Relay	230 VAC / 5 AMP				
Counting	Up				
Display	6 Digit Upper / 4 Digit Lower Display		8 Digit Upper / 4 Digit Lower Display		6 Digit Upper / 4 Digit Lower Display
	6 Digit Total Length / 4 Digit MPM		8 Digit Total Tablet / 4 Digit TPM		6 Digit Total Count / 4 Digit Time
Keyboard	4 Keys				
Reset	Auto / Manual - Front / Back Reset				
Memory	Yes (Non-Volatile Memory)				
Front Protection	ABS Plastic Body				
Mounting	Flush Panel Mounting With Side Clamp				
Power Supply	230 VAC± 10%, 50 HZ				
Enviornment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)				

TEMP + RH / ISOLATOR

DTC-9621-1
DTC-9621-H



TEMP + RH CONTROLLER



RH CONTROLLER

Case Size	96 x 96 x 45	72 x 72 x 65
Panel Hole Size	92 x 92	67 x 67
Range Limit	Temp.: 0-150°C / RH: 0-100%	RH: 0-100%
Input	Temp.: PT-100 / Capacitive RH Sensor (3.3VDC / 4-20mA)	Capacitive RH Sensor (3.3VDC / 4-20mA)
Sensor Supply		5 VDC
Accuracy	± 1°C for Temperature, ± 2% for RH	± 2% for RH
Resolution	0.1°C for Temperature, 1% for RH	1% for RH
Function	PID / On- Off action Selectable	
Output	2/3 Relay output	1 Relay output
Display	4 Digit Dual Display	
Keyboard	4 Keys	
Front Protection	ABS Plastic Body	
Mounting	Flush Panel Mounting With Side Clamp	
Power Supply	230 VAC± 10%, 50 HZ	
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)	

RH Sensor
Isolator



SH - 103

RH SENSOR



SH - 203

SIGNAL ISOLATOR



SIC 7060

Case Size			70 x 60
Range Limit	15-85% RH	0 to 100% RH / 0°C -150°C Temp	
Input			0-10 VDC / 4-20mA
Sensor Supply	5 VDC		
Output	3.3 VDC	4-20 mA / PT-100	0-10 VDC / 4-20mA (Single or Dual channel)
Feature			1200 VA Opto Isolated Output
Indication			Indication For Power On
Mounting	Hanging type / Wall mount		
Power Supply	230 VAC± 10%, 50 HZ		
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)		

TT

HEAD MOUNT TEMPERATURE TRANSMITTER

Input	RTD / TC / Resistance MV
Output	4-20 mA
Accuracy	≤ 0.5% FS
Programming	Programming by USB Port
Power Supply	12-40 VDC
Cold Junction	Built in For TC



CC-961
FIT-961



CURRENT CONTROLLER



FLOW RATE INDICATOR TOTALISER

Case Size	96 x 96 x 90	
Panel Hole Size	92 x 92	
Range Limit	0-9999 Amp	0-9999 Flow rate, 0-99999999 Total Flow
Input	5 Amp, Ct Ratio Selectable	4-20 mA / Pulse
Accuracy	$\pm 0.5\%$ of FS	
Resolution	Selectable Resolution	0.1 For Flow Rate
Function	High / Low alarm, Power on Delay time	LPM / LPH / M3-HR Unit Selectable, Square root function for flow
Output	1 Relay output	1 Relay / 4-20 mA / RS-485 (Factory set)
Control Action	On-Off with hysteresis band	
Display	4 Digit Dual Display	8 Digit for total flow, 4 Digit Flow rate
Indication	Indication For Relay Status	
Keyboard	4 Keys	
Front Protection	ABS Plastic Body	
Mounting	Flush Panel Mounting With Side Clamp	
Power Supply	230 VAC $\pm 10\%$, 50 HZ	
Environment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)	

LCC
LCC+
VC
VC+



LCC



LCC+



VC



VC+

LOAD CELL CONTROLLER

VIBRATOR CONTROLLER

Case Size	96 x 96 x 90	70 x 45	72 x 65	70 x 70
Panel Hole Size	92 x 92		68 x 68	
Range Limit	0-50000		30-230 VAC	
Input	Load cell sensor		Micro Switch, Proximity, Analog	4-20 mA / 0-10 VDC (Factory Set)
Resolution	Selectable			
Calibration	Software calibration of load			
Output	1 / 2 / 3 Relay, 4-20mA,	RS - 485 modbus	30-230 VAC, 5 Amp	
	0-10 VDC, RS 485 Modbus (Factory Set)	communication		
Control Action	On-Off with hysteresis band		Soft starter with linear output	
Display	5 Digit Dual Display		4 Digit Single display	
Indication	Indication For Relay Status		On - Off Indication	
Keyboard	6 Keys		3 Keys	
Front Protection	ABS Plastic Body			
Mounting	Flush Panel Mounting With Side Clamp	Din Rail / Channel mount	Flush Panel Mounting With Side Clamp	Din Rail / Channel mount
Power Supply	230 VAC± 10%, 50 HZ			
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)			

SPECIAL CONTROLLER

SCN 968 PLC 961



8 CHANNEL SCANNER CUM DATA LOGGER



DATA LOGGER

Case Size	96 x 96 x 90	96 x 96 x 90
Panel Hole Size	92 x 92	92 x 92
Range Limit	J: 0-600°C, K: 0-1200°C, RTD: 0-400.0°C	
Input	8 Channel : J / K / RTD Factory set	1 / 2 Channel : J / K / RTD Factory set
Accuracy	± 0.5% of FS	
Resolution	TC : 1°C, RTD : 0.1°C	
Function	High / Low alarm, Micro SD Card data Logging Channel Skip Facility	Micro SD Card data Logging Selectable Data Log rate
	Channel scan : Auto / Manual, 2-99 Sec. Adjustable scan time	1-99 Min. Selectable data log time
Output	2 Relay for Alm / RS - 485 Modbus	
Display	4 Digit Dual Display	16 x 2 LCD Display
Indication	Indication For Relay Status, Current Channel Status	
Keyboard	4 Keys	
Front Protection	ABS Plastic Body	
Mounting	Flush Panel Mounting With Side Clamp	
Power Supply	230 VAC ± 10%, 50 HZ	
Environment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)	

SCT 961 HT 961 HT 4821



SCT-961



HT-4821

PAPER PLATE MACHINE CONTROLLER

Case Size	96 x 96 x 90	96 x 96 x 45	48 x 48 x 75
Panel Hole Size	92 x 92	92 x 92	46 x 46
Range Limit	99.99 Sec.		
Input	Micro Switch (Auto / Manual Function)		
Accuracy	± 0.5% of FS		
Function	Auto / Manual Function, Up / Down Hold / Down / Up Hold - Function		
Output	2 Relay, 1 C/O, 5 Amp. 230 VAC / 12 VDC SSR Output (Factory Reset)		
Display	4 Digit Dual Display		
Indication	Indication For Relay Status		
Keyboard	4 Keys		
Front Protection	Metal Body	ABS Plastic Body	
Mounting	Flush Panel Mounting With Side Clamp		
Power Supply	230 VAC± 10%, 50 HZ		
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)		

JUMBO DISPLAY

4" Jumbo Display



PI-4041

PI-4042

	431 x 203 x 76 mm (W x H x D)	
Range Limit	J: 0-600°C, K: 0-1200°C, RTD: 0-400°C / -1999 to 9999 User Programmable	
Input	Temperature / Loadcell / Counter / 4-20mA / 0-20 mA / 0-10 VDC - RS - 485 (Factory Set)	
Feature	Temperature Indicator / Process Indicator / Counter - 5d / Rs 485 - 5d (Slave) / Temperature + Rh Indicator	
Accuracy	± 0.5% of FS	
Resolution	Selectable Resolution for Process Indicator	
Output	1 Relay for Alm / RS - 485 Modbus	
Display	4" - 4 /5 Digit Single side	4" - 4 Digit Dual side
Keyboard	4 Keys	
Front Protection	Sheet Metall powder Coating	
Mounting	Hanging & Wall Mount	
Power Supply	230 VAC± 10%, 50 HZ	
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)	

2" JUMBO DISPLAY



PI-2040

PI-2042

Case Size	315 x 190 x 76 mm (W x H x D)	
Range Limit	J: 0-600°C, K: 0-1200°C, RTD: 0-400°C / -1999 to 9999 User Programmable	
Input	Temperature / Loadcell / Counter / 4-20mA / 0-20 mA / 0-10 VDC - RS -485 (Factory Set)	
Feature	Temperature Indicator / Process Indicator / Counter - 5d / Rs 485 - 5d (Slave) / Temperature + Rh Indicator	
Accuracy	± 0.5% of FS	
Resolution	Selectable Resolution for process Indicator	
Output	1 Relay for Alm / RS - 485 Modbus	
Display	2" - 4/5 Digit Single side	2" - 5 Digit Dual side
Keyboard	4 Keys	
Front Protection	Sheet Metall powder Coating	
Mounting	Hanging & Wall Mount	
Power Supply	230 VAC± 10%, 50 HZ	
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)	

PANEL METER

AMP METER



DPM-A-1P

DPM-A-3P

DPM-A-3P-1D

Case Size	96 x 96 x 45	72 x 72 x 45	48 x 96 x 55	48 x 48 x 55	96 x 96 x 45	72 x 72 x 65
	92 x 92	68 x 68	46 x 92	46 x 46	92 x 92	68 x 68
Range Limit	0-9999 Amp				0-999 Amp	
Input	5 Amp Ct Selectable / 30 Amp Direct				5 Amp Ct Selectable	
Function	Single Phase				Three Phase	
Accuracy	± 0.5% of FS					
Resolution	Auto Selectable					
Display	3 Digit Single display				3 Digit Three Row	4 Digit Single Display
Keyboard					3 Keys	
Front Protection	ABS Plastic Body					
Mounting	Flush Panel Mounting With side clamp					
Power Supply	230 VAC± 10%, 50 HZ					
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)					

VOLT METER



DPM-V-1P

DPM-V-3P

DPM-V-3P-1D

Case Size	96 x 96 x 45	72 x 72 x 45	48 x 96 x 55	48 x 48 x 55	96 x 96 x 45	72 x 72 x 65
	92 x 92	68 x 68	46 x 92	46 x 46	92 x 92	68 x 68
Range Limit	0-500 VAC					
Input	0-500 VAC					
Function	Single Phase				Three Phase (P-P, P-N, Average)	
Accuracy	± 0.5% of FS					
Display	3 Digit Single Display				3 Digit Three Row	3 Digit Single Display
Keyboard					3 Keys	
Front Protection	ABS Plastic Body					
Mounting	Flush Panel Mounting With side clamp					
Power Supply	230 VAC± 10%, 50 HZ					
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)					

PANEL METER

VA METER VAW METER



AV - 721



AV - 481



VAW - 491 - DC

Case Size	72 x 72 x 45 68 x 68	48 x 48 x 55 46 x 46	48 x 96 x 55 46 x 92
Range Limit	0-999 Amp / 0-500 VAC		0-9999 ADC / 0-500 VDC
Input	5 Amp Ct Selectable / 30 Amp Direct / Volt: 0-500 VAC		75 MV Shunt / 20.0 Amp Direct / 0-500 VDC
Function	Single Phase		
Accuracy	± 0.5% of FS		
Display	3 Digit Dual		8 Digit Single
Keyboard	3 Keys		
Front Protection	ABS Plastic Body		
Mounting	Flush Panel Mounting With side clamp		
Power Supply	230 VAC ± 10%, 50 HZ		
Environment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)		

DC-DPM



ADC-491



VDC-491

Case Size	96 x 96 x 45	72 x 72 x 45	48 x 96 x 55	48 x 48 x 55
	92 x 92	68 x 68	46 x 92	46 x 46
Range Limit	0-9999 ADC		0-50.00 VDC / 0-200.0 VDC / 0-500.0 VDC	
Input	75 MV Shunt / 20.0 Amp Direct		0-500 VDC	
Function	Single Phase			
Accuracy	± 0.5% of FS			
Display	4 Digit Single Display, 3 Key			
Front Protection	ABS Plastic Body			
Mounting	Flush Panel Mounting With side clamp			
Power Supply	230 VAC± 10%, 50 HZ			
Enviornment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)			

POWER ANALYSER

AVF EM



AVF-961

AVF METER

ENERGY METER



EM-961

Case Size	96 x 96 x 45			
	92 x 92			
Range Limit	0-500 VAC / 0-999 AMP	0-99999.9 KWH / 0-999.9 KW	0-99999.9 KWH / 0-999.9 KW	0-99999.9 KWH
Input	5 Amp CT Selectable / Volt: 0-500 VAC			
Function	Three Phase : Amp, Volt, Frequency, P-P, P-N, Average	Single Phase : KWH, KW	Three Phase : KWH, KW	
Accuracy	± 0.5% of FS			
Display	3 Digit 3 Row	6 Digit KWH, 4 Digit KW	6 Digit KWH, 4 Digit KW	6 Digit KWH
Keyboard	4 Keys			
Front Protection	ABS Plastic Body			
Mounting	Flush Panel Mounting With side clamp			
Power Supply	230 VAC± 10%, 50 HZ			
Enviornment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)			

MULTI FUNCTION METER

POWER METER

MFM PM



MFM-961-4E



PM-961

Case Size	96 x 96 x 45	
	92 x 92	
Range Limit	0-99999.9 KWH	0-999.9 KWH
Input	5 Amp CT Selectable / Volt: 0-500 VAC	
Function	Three Phase : Amp, Volt, Frequency, P-P, P-N, Average / KW / KWH / KVAR / KVA / KVARH / Load Time, RPM, Power Factor	
Accuracy	Class - 1	Class - 1
Communication	RS-485 Modbus RTU (Optional)	
Display	6 Digit Single Line / 4 Digit 3 Row	4 Digit 3 Row
Keyboard	4 Keys	
Front Protection	ABS Plastic Body	
Mounting	Flush Panel Mounting With side clamp	
Power Supply	230 VAC $\pm$ 10%, 50 HZ	
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)	

PROTECTION RELAY

MPD VPR



MPD-961

MOTOR PROTECTION DEVICE



VPR-961-3P

VOLTAGE PROTECTION RELAY

Case Size	96 x 96 x 45	
	92 x 92	
Range Limit	0-500 VAC / 0-999 AMP	0-500 VAC
Input	5 Amp CT Selectable / Volt: 0-500 VAC	Volt: 0-500 VAC
Function	Three Phase Protection : Over / Under Voltage, Over / Under Current, Unbalance, SPP, phase Sequence Over / Under Frequency, Lock Rotor, Short Circuit	Three Phase Protection : Over / Under Voltage Unbalance, Spp,phase Sequence, Over / Under Frequency
Output	2 Relay Output	1 Relay Output
Accuracy	$\pm 0.5\%$ of FS	
Display	3 Digit 3 Line	
Keyboard	3 Keys	
Front Protection	ABS Plastic Body	
Mounting	Flush Panel Mounting With side clamp	
Power Supply	230 VAC $\pm 10\%$, 50 HZ	
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)	

CURRENT PROTECTION RELAY

CPR SSR



CPR-961-3P

SOLID STATE RELAY



SSR-48

Case Size	96 x 96 x 45	
	92 x 92	
Range Limit	0-999 AMP	10 / 16 / 25 / 40 / 50 / 75 / 90 AMP
Input	5 Amp CT Selectable	3-32 VDC / 230 VAC / 4-20 mA
Function	Three Phase Protection : Over / Under Current, Unbalance, SPP, phase Sequence Lock Rotor, Short Circuit	DC to AC / AC to AC / DC to DC / Analog to AC
Output	2 Relay Output	480 VAC
Accuracy	$\pm 0.5\%$ of FS	
Display	3 Digit 3 Line	
Keyboard	3 Keys	
Front Protection	ABS Plastic Body	
Mounting	Flush Panel Mounting With side clamp	
Power Supply	230 VAC $\pm 10\%$, 50 HZ	
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)	

BOD Laminar



BOD CARD



LAMINAR CARD

	Temperature: 0-50°C	
Input	RTD: PT-100, 3 Wire	Air Flow Sensor
	Heating + Cooling	Fan Speed : High / Low / Medium, UV, Light
Output	5 Relay Output	7 Relay Output
Accuracy	$\pm 0.5\%$ of FS	
Display	16 x 2 Jumbo LCD Display	20 x 4 LCD Display
Keyboard	4 Keys	10 Keys
Mounting	Card Form	
	230 VAC $\pm 10\%$, 50 HZ	
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)	



PLC-961



TIMER + RPM CARD



TEMP. CONTROLLER CARD

Case Size	96 x 96		
	92 x 92		
Range Limit	0-400°C	9999 Sec. / 4-5000 RPM	0-1200°C
Input	RTD: PT-100	Proximity Sensor	TC / RTD Universal
Function	Sock Timer / Perging Start-Stop	Timer / RPM	Heating / Cooling / BOD / COD
Accuracy	± 0.5% of FS		
Display	16 x 2 LCD Display	4 Digit Dual Display	
Keyboard	4 Keys		
Mounting	Card Form		
Power Supply	230 VAC± 10%, 50 HZ		85-270 VAC / 50 Hz
Envirnment	Temp : 0 - 50°C / Rh : 35 - 85 % (Non - Condensation)		

THJ

Heat Press / Fusing Controller

Input	J/K type Thermocouple / Start pulse for Timer
Output	30 Amp for Heater, Relay for Pneumatic cylinder, Buzzer for job complete
Control	PID / On-Off Action
Range	0-999 Sec. Timer / 0-999 Count
Display	4 Digit Dual Display (THJ-610), O-LED high Bright (THJ-600)
Mounting	Card type PCB mounting
Supply	AC-85-265 V, 50 Hz



THJ-610

