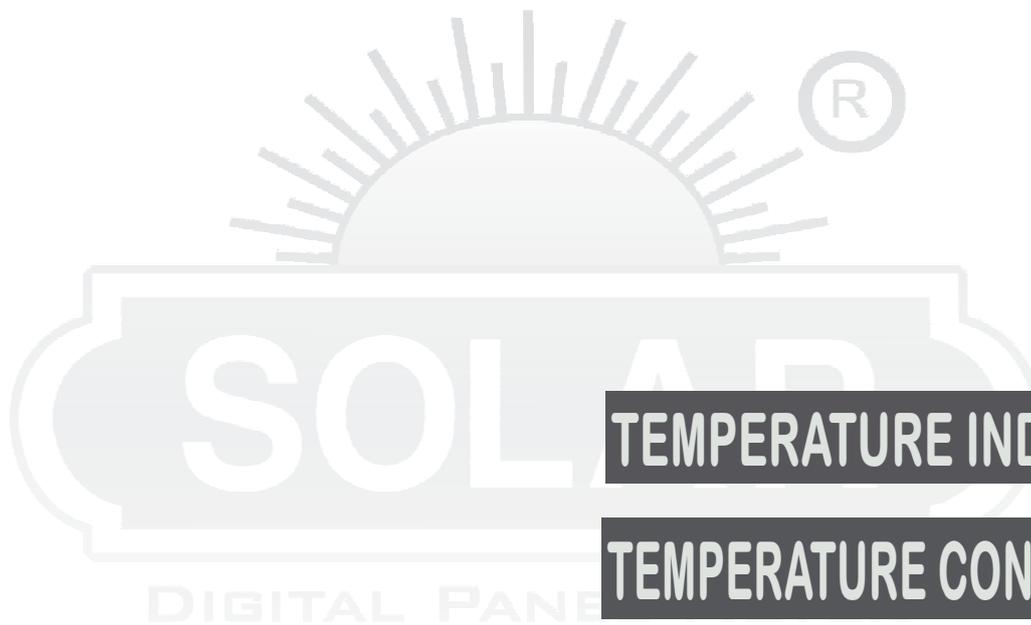# SOLAR
DIGITAL METER

®

PRODUCTS CATALOGUE
Sun Products
Rajkot

TEMPERATURE INDICATORS
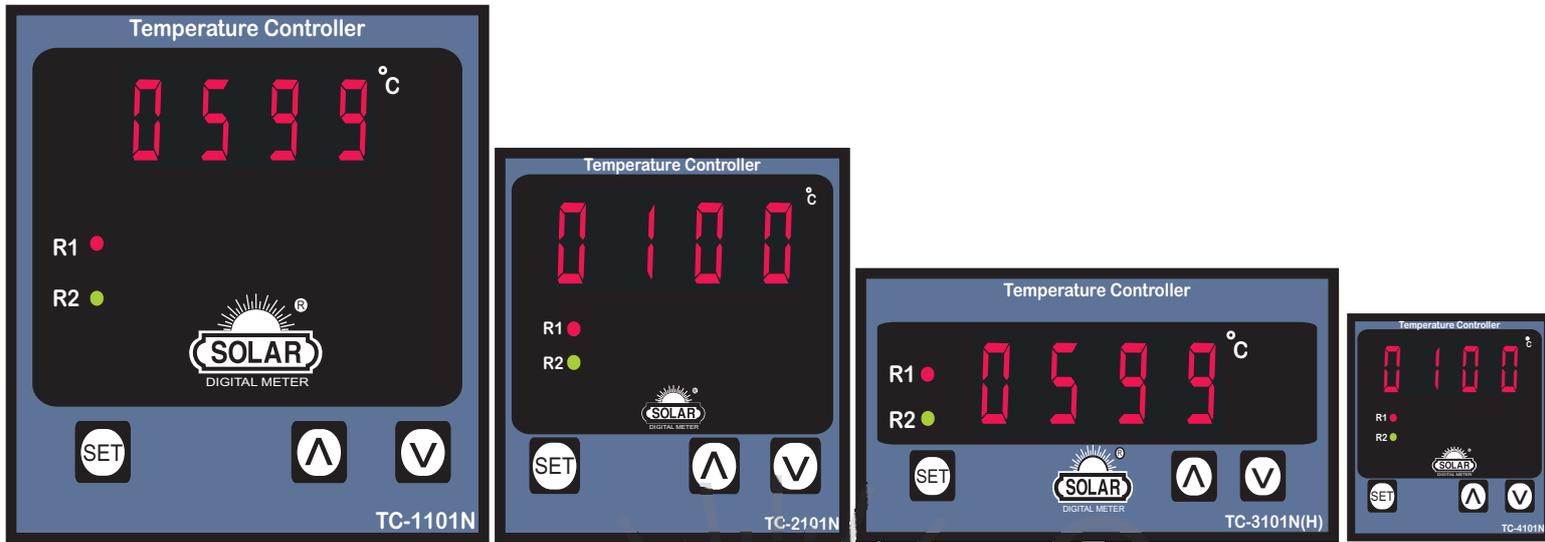
TEMPERATURE CONTROLLERS

TIMERS

COUNTERS

CUSTOMIZED CONTROL CARDS

PROCESS INDICATORS & CONTROLLERS

DIGITAL VOLT-AMP. INDICATORS (1-Ph & 3-Ph)

Temperature Controller

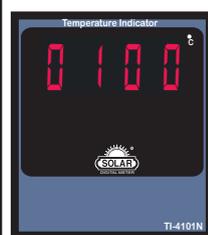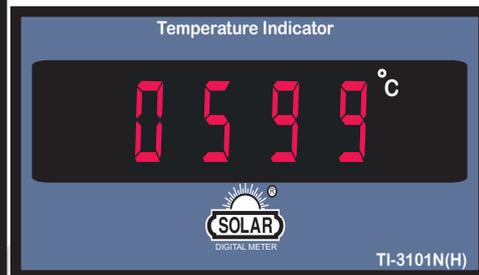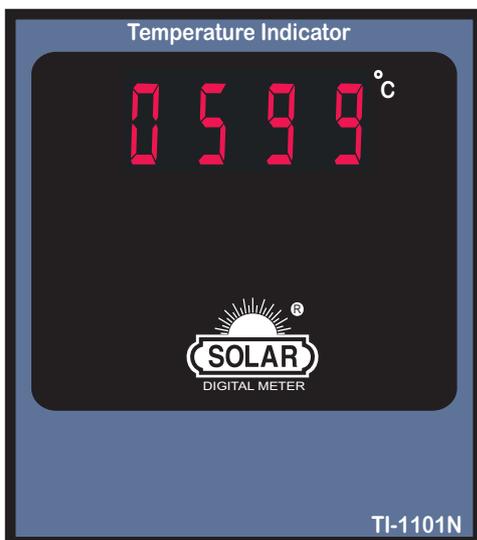0599 °C

R1 ●
R2 ●

SOLAR® DIGITAL METER

SET ∧ ∨

TC-1101N

Temperature Controller

0100 °C

R1 ●
R2 ●

SOLAR® DIGITAL METER

SET ∧ ∨

TC-2101N

Temperature Controller

R1 ●
R2 ● 0599 °C

SOLAR® DIGITAL METER

SET ∧ ∨

TC-3101N(H)

Temperature Controller

0100 °C
R1 ●
R2 ●

SOLAR DIGITAL METER

SET ∧ ∨

TC-4101N

MODEL	TC-1101N	TC-2101N	TC-3101N	TC-4101N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	44 x 44
Display	Single Display: 7-Segment, 4-Digit, 0.56" RED LED Display			Single Display: 7-Segment, 4-Digit, 0.4" RED LED Display

INPUT

Sensor	J / K / R / S / PT-100 2W/3W (Factory Set)		J / K / PT-100 2W/3W (Factory Set)	
Range	J(0℃ to 600℃) , K(0℃ to 1200℃) , R(0℃ TO 1600℃), PT-100 2W/3W (-50℃ TO 400℃)		J(0℃ to 600℃) , K(0℃ to 1200℃), PT-100 2W/3W (-50℃ TO 400℃)	

OUTPUT

Relay Rating	1 C/O ,5A, 230V AC
SSR/BUZZER	OPTIONAL (approximately 12V DC)

SPECIFICATION

Set Point	1-Set Point (Push Button to set SET point)
Control Action	Time Proportional / ON-OFF (Factory set)
Operating Mode	Heat Mode (Also Cool Mode is available on Demand)

RESOLUTION

	J & K 1℃Fix. , PT-100 2W/3W 0.1℃ / 1℃
Accuracy	±1% of FSD
Power Supply	230V AC, ±10%, 50Hz
Protection	Relay turns OFF in case of sensor break
Indication	"OPEN" Message is displayed if sensor is disconnected & LED for relay Status Indicatioon

Enclosure Material	Plastic
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

NOTE: In all size cooling action or zebra Function are available.

NOTE : In J-type or PT-100 sensor, Resolution of 0.1℃ is available as per customer Requirement.
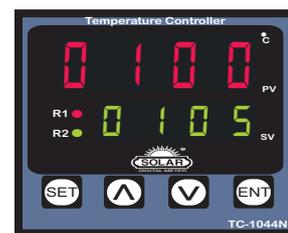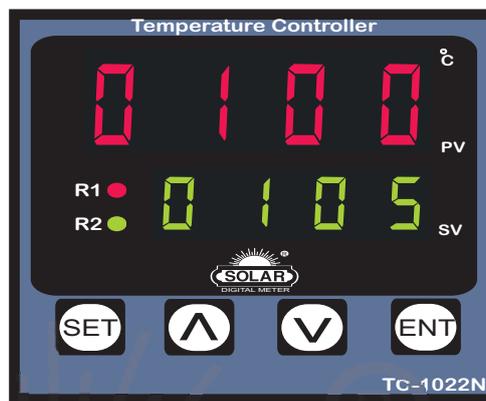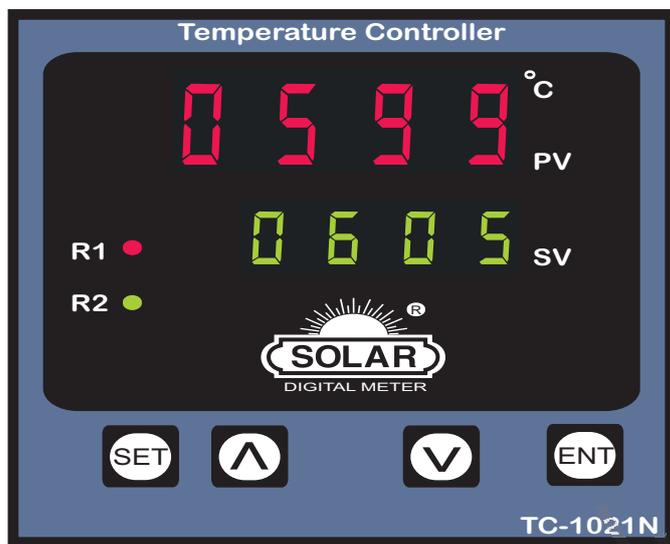
DIGITAL TEMPERATURE INDICATOR

Fix Input

Temperature Indicator — TI-1101N

Temperature Indicator — TI-2101N

Temperature Indicator — TI-3101N(H)

Temperature Indicator — TI-4101N

MODEL	TI-1101N	TI-2101N	TI-3101N	TI-4101N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	44 x 44
Display	Single Display: 7-Segment, 4-Digit, 0.56" RED LED Display			Single Display: 7-Segment, 4-Digit, 0.4" RED LED Display

INPUT

Sensor	J / K / R / S / PT-100 2W/3W (Factory Set)	J / K / PT-100 2W/3W (Factory Set)
Range	J(0℃ to 600℃) , K(0℃ to 1200℃) , R(0℃ TO 1600℃), PT-100 2W/3W (-50℃ TO 400℃)	J(0℃ to 600℃) , K(0℃ to 1200℃), PT-100 2W/3W (-50℃ TO 400℃)

SPECIFICATION

RESOLUTION	J & K 1℃Fix. , PT-100 2W/3W 0.1℃ / 1℃
Accuracy	±1% of FSD
Power Supply	230V AC, ±10%, 50Hz
	–
Indication	"OPEN" Message is displayed if sensor is disconnected
Enclosure Material	Plastic
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

NOTE : In J-type or PT-100 sensor, Resolution of 0.1℃ is available as per customer Requirement.

SOLAR ®
DIGITAL METER

with Upto 4 Relay Output & Customized Function

Temperature Controller

TC-1021N   TC-1022N   TC-1044N

MODEL	TC-1021N	TC-1022N	TC-1032N	TC-1044N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	44 x 44

Display	Upper Display: 7-Segment, 4-Digit, 0.56" RED LED Display Lower Display: 7-Segment, 4-Digit, 0.4" GREEN LED Display	Upper Display: 7-Segment, 4-Digit, 0.4" RED LED Display Lower Display: 7-Segment, 4-Digit, 0.3" GREEN LED Display

INPUT

Sensor	J / K / R / S / PT-100 2W/3W (Factory Set)	J / K / PT-100 2W/3W (Factory Set)
Range	J(0℃ to 600℃) , K(0℃ to 1200℃) , R(0℃ TO 1600℃), PT-100 2W/3W (-50℃ TO 400℃)	J(0℃ to 600℃) , K(0℃ to 1200℃), PT-100 2W/3W (-50℃ TO 400℃)

OUTPUT

Relay Rating	1 C/O ,5A, 230V AC (2 C/O is also available)
SSR/BUZZER	12V DC/24V DC approximately (optional)

SPECIFICATION

Set Point	1-Set Point (Push Button to set SET point)
Control Action	Time Proportional / ON-OFF (User configurable)
Operating Mode	Heat Mode (Also Cool Mode is available on Demand)

RESOLUTION

	J & K 1℃Fix. , PT-100 2W/3W 0.1℃/ 1℃
Accuracy	±1% of FSD
Power Supply	230V AC, ±10%, 50Hz
Protection	Relay turns OFF in case of sensor break
Indication	"OPEN" Message is displayed if sensor is disconnected & LED for relay Status Indicatioon

Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

NOTE: In all size cooling action or zebra Function are available.
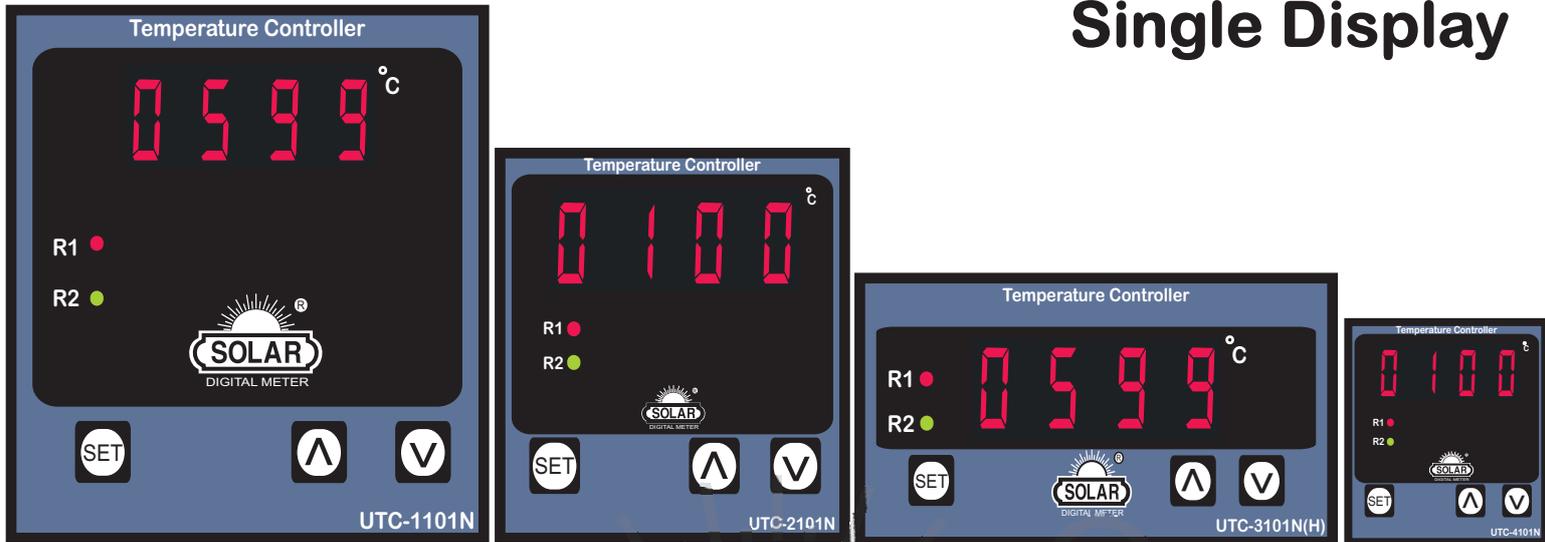   2,3,4 Set Points are available in 96 x 96 size
   2,3   Set Points are available in 72 x 72 size
   2   Set Points are available in 48 x 48 size
   All the above Function can b possible in Single Display model

   In J-type or PT-100 sensor, Resolution of 0.1℃ is available as per customer Requirement.

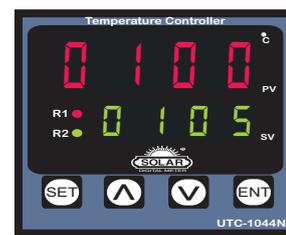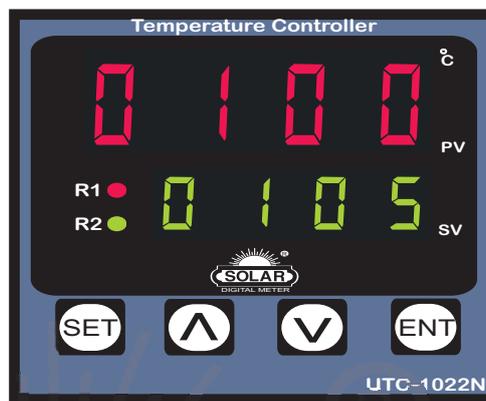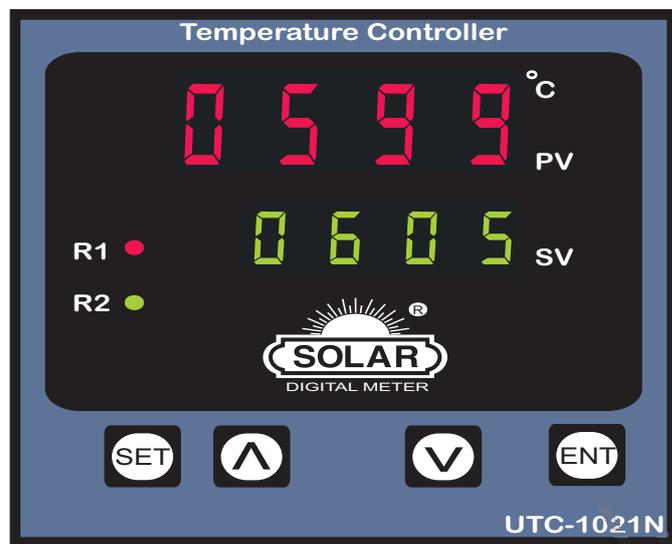# Universal Input & ON-OFF/TP Control Action Single Display

MODEL	UTC-1101N	UTC-2101N	UTC-3101N	UTC-4101N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	44 x 44
Display	Single Display: 7-Segment, 4-Digit, 0.56" RED LED Display			Single Display: 7-Segment, 4-Digit, 0.4" RED LED Display
INPUT				
Sensor	J / K / R / S / PT-100 2W/3W (Configurable)		J / K / PT-100 2W/3W (Factory Set)	
Range	J(0℃ to 600℃) , K(0℃ to 1200℃) , R(0℃ TO 1600℃), PT-100 2W/3W (-50℃ TO 400℃)		J(0℃ to 600℃) , K(0℃ to 1200℃), PT-100 2W/3W (-50℃ TO 400℃)	
OUTPUT				
Relay Rating	1 C/O ,5A, 230V AC			
SSR/BUZZER	OPTIONAL (approximately 12V DC)			
SPECIFICATION				
Set Point	1-Set Point (Push Button to set SET point)			
Control Action	Time Proportional / ON-OFF (User Configurable)			
Operating Mode	Heat Mode (Also Cool Mode is available on Demand)			
RESOLUTION	J & K 1℃Fix. , PT-100 2W/3W 0.1℃ / 1℃			
Accuracy	±1% of FSD			
Power Supply	230V AC, ±10%, 50Hz			
Protection	Relay turns OFF in case of sensor break			
Indication	"OPEN" Message is displayed if sensor is disconnected & LED for relay Status Indicatioon			
Enclosure Material	Plastic			
Operating Ambient Temp.	0 C to 55 C			
Relative Humidity	Up to 95% RH Non Condensing			

NOTE: In all size cooling action or zebra Function are available.

NOTE : In J-type or PT-100 sensor, Resolution of 0.1℃ is available as per customer Requirement.

SOLAR ®
DIGITAL METER

PROGRAMMABLE TEMPERATURE CONTROLLER
Double Display ,TP/ON-OFF Control Action

UTC-1021N

UTC-1022N

UTC-1044N

MODEL	UTC-1021N	UTC-1022N	UTC-1032N	UTC-1044N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	44 x 44

Display		
Upper Display: 7-Segment, 4-Digit, 0.56" RED LED Display (PV) **Lower Display:** 7-Segment, 4-Digit, 0.4" GREEN LED Display (SV)		**Upper Display:** 7-Segment, 4-Digit, 0.4" RED LED Display(PV) **Lower Display:** 7-Segment, 4-Digit, 0.3" GREEN LED Display(SV)

INPUT

Sensor	J / K / R / S / PT-100 2W/3W (Configurable)	J / K / PT-100 2W/3W (Factory Set)
Range	J(0℃ to 600℃) , K(0℃ to 1200℃) , R(0℃ TO 1600℃), PT-100 2W/3W (-50℃ TO 400℃)	J(0℃ to 600℃) , K(0℃ to 1200℃), PT-100 2W/3W (-50℃ TO 400℃)

OUTPUT

Relay Rating   1 C/O ,5A, 230V AC (2 C/O is also available)
SSR/BUZZER   12V DC/24V DC approximately (optional)

SPECIFICATION

Set Point   1-Set Point (Push Button to set SET point)
Control Action   Time Proportional / ON-OFF (User configurable)
Operating Mode   Heat Mode (Also Cool Mode is available on Demand)

RESOLUTION   J & K 1℃Fix. , PT-100 2W/3W 0.1℃ / 1℃

Accuracy   ±1% of FSD
Power Supply   230V AC, ±10%, 50Hz
Protection   Relay turns OFF in case of sensor break
Indication   "OPEN" Message is displayed if sensor is disconnected & LED for relay Status Indicatioon

Enclosure Material   Plastic/Metal
Operating Ambient Temp.   0 C to 55 C
Relative Humidity   Up to 95% RH Non Condensing
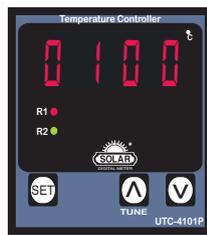
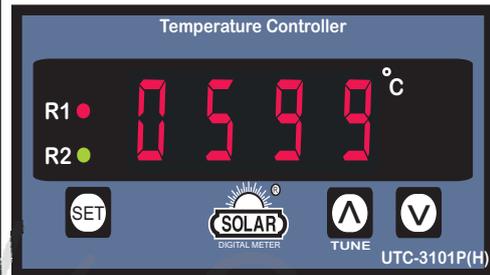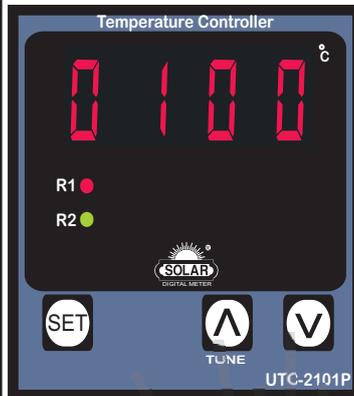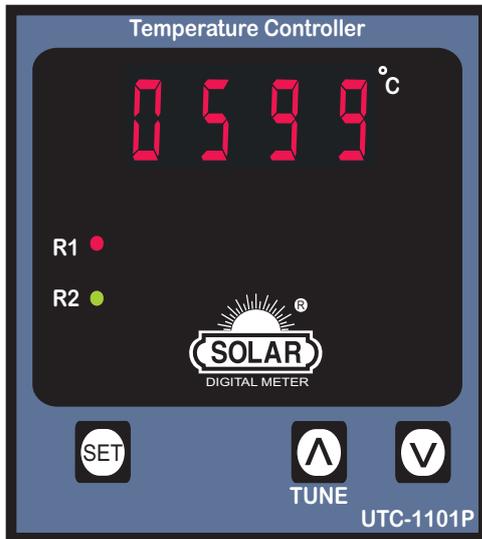NOTE: In all size cooling action or zebra Function are available.
      PV means Process Value
      SV means Set Value
   In J-type or PT-100 sensor, Resolution of 0.1℃ is available as per customer Requirement.

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DIGITAL METER ®

TEMPERATURE CONTROLLER-UNIVERSAL
Universal Input & ON-OFF/PID Control Action
Single Display

Temperature Controller — UTC-1101P

Temperature Controller — UTC-2101P

Temperature Controller — UTC-3101P(H)

Temperature Controller — UTC-4101P

MODEL	UTC-1101P	UTC-2101P	UTC-3101P	UTC-4101P
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	44 x 44
Display	Single Display: 7-Segment, 4-Digit, 0.56" RED LED Display			Single Display: 7-Segment, 4-Digit, 0.4" RED LED Display

INPUT		
Sensor	J / K / R / S / PT-100 2W/3W (Configurable)	J / K / PT-100 2W/3W (Factory Set)
Range	J(0℃ to 600℃) , K(0℃ to 1200℃) , R(0℃ TO 1600℃), PT-100 2W/3W (-50℃ TO 400℃)	J(0℃ to 600℃) , K(0℃ to 1200℃), PT-100 2W/3W (-50℃ TO 400℃)

OUTPUT	
Relay Rating	1 C/O ,5A, 230V AC
SSR/BUZZER	OPTIONAL (approximately 12V DC)

SPECIFICATION	
Set Point	1-Set Point (Push Button to set SET point)
Control Action	PID / ON-OFF (User Configurable)
Operating Mode	Heat Mode (Also Cool Mode is available on Demand)

RESOLUTION	
	J & K 1℃Fix. , PT-100 2W/3W 0.1℃ / 1℃
Accuracy	±1% of FSD
Power Supply	230V AC, ±10%, 50Hz
Protection	Relay turns OFF in case of sensor break
Indication	"OPEN" Message is displayed if sensor is disconnected & LED for relay Status Indicatioon

Enclosure Material	Plastic
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

NOTE: In all size cooling action or zebra Function are available.

NOTE : In J-type or PT-100 sensor, Resolution of 0.1℃ is available as per customer Requirement.

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PROGRAMMABLE TEMPERATURE CONTROLLER
Double Display ,Auto Tune PID Control Action

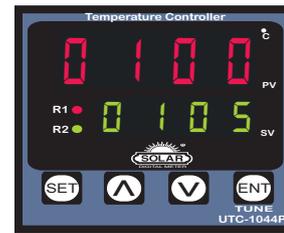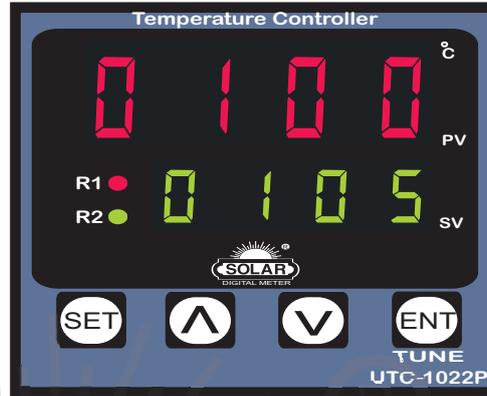| MODEL	UTC-1021P	UTC-1022P	UTC-1032P	UTC-1044P
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	44 x 44
Display	**Upper Display:** 7-Segment, 4-Digit, 0.56" RED LED Display (PV) **Lower Display:** 7-Segment, 4-Digit, 0.4" GREEN LED Display (SV)		**Upper Display:** 7-Segment, 4-Digit, 0.4" RED LED Display(PV) **Lower Display:** 7-Segment, 4-Digit, 0.3" GREEN LED Display(SV)	
INPUT				
Sensor	J / K / R / S / PT-100 2W/3W (Configurable)		J / K / PT-100 2W/3W (Factory Set)	
Range	J(0°C to 600°C) , K(0°C to 1200°C) , R(0°C TO 1600°C), PT-100 2W/3W (-50°C TO 400°C)		J(0°C to 600°C) , K(0°C to 1200°C), PT-100 2W/3W (-50°C TO 400°C)	
OUTPUT				
Relay Rating	1 C/O ,5A, 230V AC (2 C/O is also available)			
SSR/BUZZER	12V DC/24V DC approximately (optional)			
SPECIFICATION				
Set Point	1-Set Point (Push Button to set SET point)			
Control Action	PID / ON-OFF (User configurable)			
Operating Mode	Heat Mode (Also Cool Mode is available on Demand)			
RESOLUTION	J & K 1°CFix. , PT-100 2W/3W 0.1°C / 1°C			
Accuracy	±1% of FSD			
Power Supply	230V AC, ±10%, 50Hz			
Protection	Relay turns OFF in case of sensor break			
Indication	"OPEN" Message is displayed if sensor is disconnected & LED for relay Status Indicatioon			
Enclosure Material	Plastic/Metal			
Operating Ambient Temp.	0 C to 55 C			
Relative Humidity	Up to 95% RH Non Condensing			

NOTE: In all size cooling action or zebra Function are available.
     PV means Process Value
     SV means Set Value
  In J-type or PT-100 sensor, Resolution of 0.1°C is available as per customer Requirement.

PROGRAMMABLE TEMPERATURE CONTROLLER
Dual Output ,Auto Tune PID Control Action

MODEL	UTC-1021P	UTC-1022P	UTC-1032P	UTC-1044P
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	44 x 44
Display	Upper Display: 7-Segment, 4-Digit, 0.56" RED LED Display (PV) Lower Display: 7-Segment, 4-Digit, 0.4" GREEN LED Display (SV)		Upper Display: 7-Segment, 4-Digit, 0.4" RED LED Display(PV) Lower Display: 7-Segment, 4-Digit, 0.3" GREEN LED Display(SV)	

INPUT

Sensor	J / K / R / S / PT-100 2W/3W (Configurable)	J / K / PT-100 2W/3W (Factory Set)
Range	J(0℃ to 600℃) , K(0℃ to 1200℃) , R(0℃ TO 1600℃), PT-100 2W/3W (-50℃ TO 400℃)	J(0℃ to 600℃) , K(0℃ to 1200℃), PT-100 2W/3W (-50℃ TO 400℃)

OUTPUT

Output 1	Heating
Output 2	Cooling
Relay Rating	1 C/O ,5A, 230V AC (2 C/O is also available)
SSR/BUZZER	12V DC/24V DC approximately (optional)

SPECIFICATION

Set Point	2-Set Point (Push Button to set SET point)
Control Action	PID / ON-OFF (User configurable)
Operating Mode	Relay-1 For Heat Mode (PID Action) Relay-2 For Cool Mode (On-Off Action)

RESOLUTION

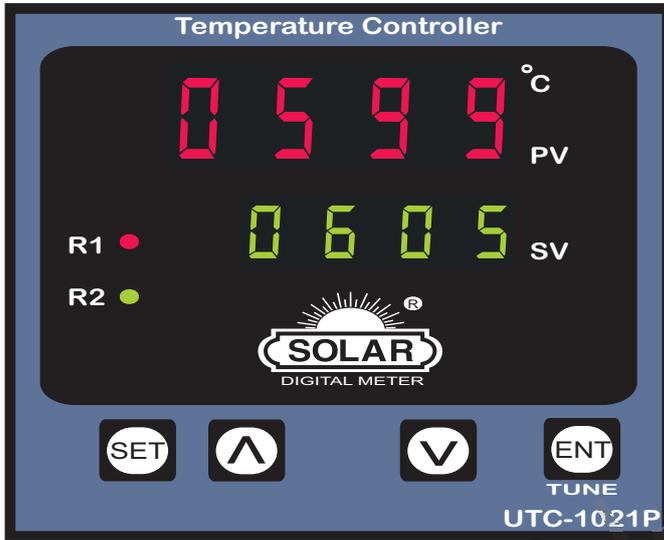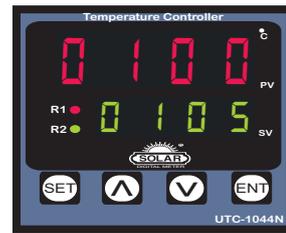|	
	J & K 1℃Fix. , PT-100 2W/3W 0.1℃/ 1℃
Accuracy	±1% of FSD
Power Supply	230V AC, ±10%, 50Hz
Protection	Relay turns OFF in case of sensor break
Indication	"OPEN" Message is displayed if sensor is disconnected & LED for relay Status Indicatioon
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

NOTE: In all size cooling action or zebra Function are available.
PV means Process Value
SV means Set Value
In J-type or PT-100 sensor, Resolution of 0.1℃ is available as per customer Requirement.

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PROGRAMMABLE TEMPERATURE CONTROLLER
Humidity + Temperature Controller with Soak Timer

MODEL	UTC-1021N	UTC-1022N	UTC-1032N	UTC-1024N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	44 x 44
Display	Upper **Display:** 7-Segment, 4-Digit, 0.56" RED LED Display (PV) Lower **Display:** 7-Segment, 4-Digit, 0.4" GREEN LED Display (SV)		Upper **Display:** 7-Segment, 4-Digit, 0.4" RED LED Display(PV) Lower **Display:** 7-Segment, 4-Digit, 0.3" GREEN LED Display(SV)	

INPUT

Sensor	J / K / R / S / PT-100 2W/3W (Configurable)	J / K / PT-100 2W/3W (Factory Set)
Range	J(0℃ to 600℃) , K(0℃ to 1200℃) , R(0℃ TO 1600℃), PT-100 2W/3W (-50℃ TO 400℃)	J(0℃ to 600℃) , K(0℃ to 1200℃), PT-100 2W/3W (-50℃ TO 400℃)

OUTPUT

Output 1	Heating
Output 2	Alarm
Relay Rating	1 C/O ,5A, 230V AC (2 C/O is also available)
SSR/BUZZER	12V DC/24V DC approximately (optional)

SPECIFICATION

Set Point	1-Set Point (Push Button to set SET point)
Control Action	TP / ON-OFF (User configurable)
Operating Mode	Relay-1 For Heat Mode Relay-2 For Alarm after Soak Time Finish

RESOLUTION

	J & K 1℃Fix. , PT-100 2W/3W 0.1℃/ 1℃
Accuracy	±1% of FSD
Power Supply	230V AC, ±10%, 50Hz
Protection	Relay turns OFF in case of sensor break
Indication	"*OPEN*" Message is displayed if sensor is disconnected & LED for relay Status Indicatioon

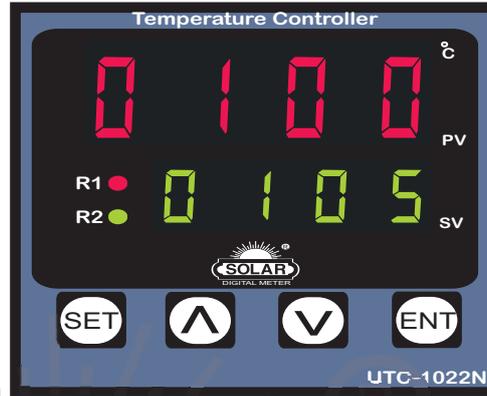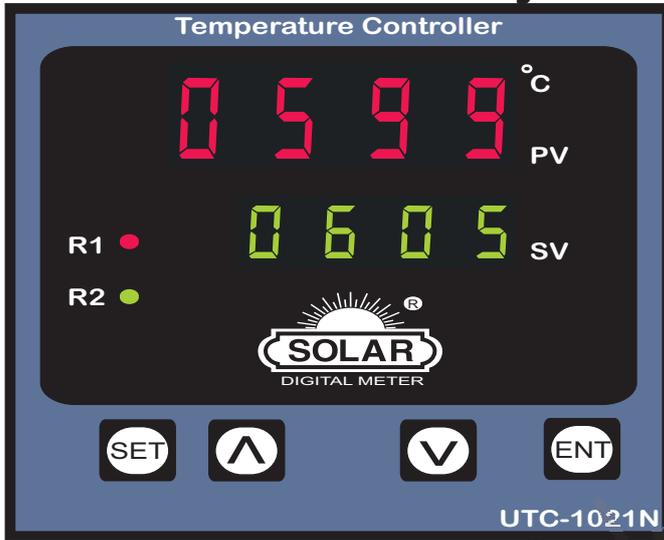|	
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

NOTE: In all size cooling action or zebra Function are available.
      PV means Process Value
      SV means Set Value
   In J-type or PT-100 sensor, Resolution of 0.1℃ is available as per customer Requirement.

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PROGRAMMABLE TEMPERATURE CONTROLLER
Temperature Controller with 9-Stage Profile Controller

MODEL	UTC-1021N	UTC-1022N	UTC-1032N	UTC-1024N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	44 x 44
Display	**Upper Display:** 7-Segment, 4-Digit, 0.56" RED LED Display (PV) **Lower Display:** 7-Segment, 4-Digit, 0.4" GREEN LED Display (SV)		**Upper Display:** 7-Segment, 4-Digit, 0.4" RED LED Display(PV) **Lower Display:** 7-Segment, 4-Digit, 0.3" GREEN LED Display(SV)	

INPUT

Sensor	J / K / R / S / PT-100 2W/3W (Configurable)		J / K / PT-100 2W/3W (Factory Set)	
Range	J(0℃ to 600℃) , K(0℃ to 1200℃) , R(0℃ TO 1600℃), PT-100 2W/3W (-50℃ TO 400℃)		J(0℃ to 600℃) , K(0℃ to 1200℃), PT-100 2W/3W (-50℃ TO 400℃)	

OUTPUT

Output 1	Heating
Output 2	Alarm
Relay Rating	1 C/O ,5A, 230V AC (2 C/O is also available)
SSR/BUZZER	12V DC/24V DC approximately (optional)

SPECIFICATION

Set Point	9-Set Point (Push Button to set SET point)
Control Action	ON-OFF
Operating Mode	Relay-1 For Heat Mode Relay-2 For Alarm after Soak Time Finish

RESOLUTION

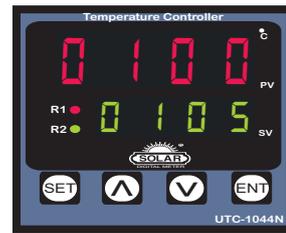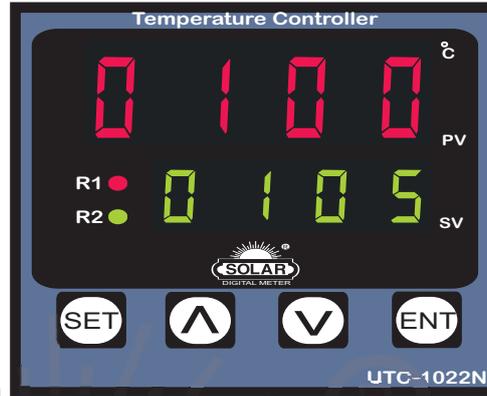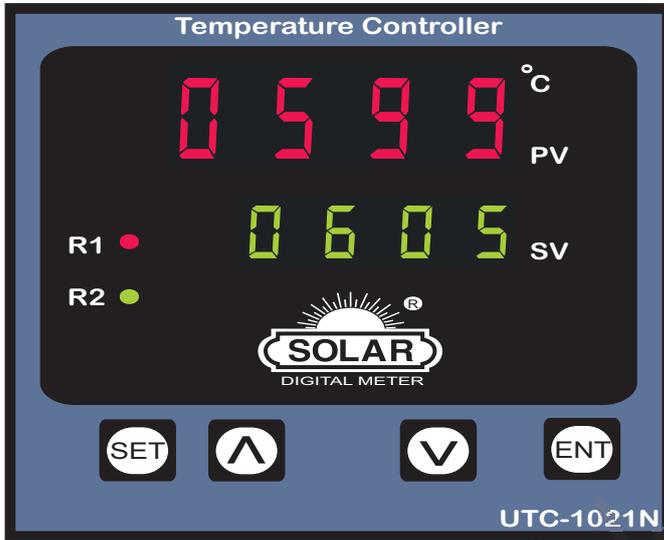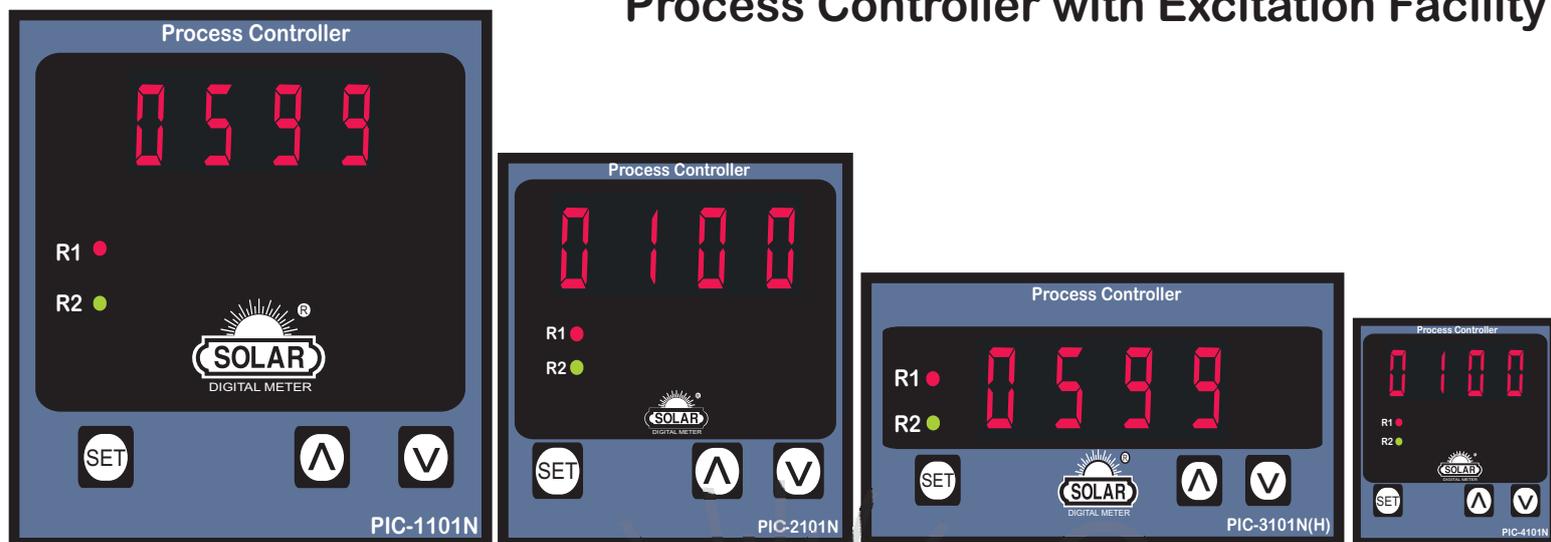|	
	J & K 1℃Fix. , PT-100 2W/3W 0.1℃/ 1℃
Accuracy	±1% of FSD
Power Supply	230V AC, ±10%, 50Hz
Protection	Relay turns OFF in case of sensor break
Indication	"*OPEN*" Message is displayed if sensor is disconnected & LED for relay Status Indicatioon
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

NOTE: In all size cooling action or zebra Function are available.
   PV means Process Value
   SV means Set Value
 In J-type or PT-100 sensor, Resolution of 0.1℃ is available as per customer Requirement.

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PROCESS CONTROL INSTRUMENT
Process Controller with Excitation Facility

MODEL	PIC-1101N	PIC-2101N	PIC-3101N	PIC-4101N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	44 x 44
Display	Single Display: 7-Segment, 4-Digit, 0.56" RED LED Display			Single Display: 7-Segment, 4-Digit, 0.4" RED LED Display
INPUT				
Signal	0-10V DC/4-20mA DC/0-20 mA DC (Configurable)		0-10V DC/4-20mA DC/0-20 mA DC (Configurable)	
Range	-999 to 9999 (Selectable)		-999 to 9999 (Selectable)	
OUPUT				
Control Output	1-Relay/SSR/Buzzer			
Excitation Voltage	12V DC / 24 V DC (Approximately)			
SPECIFICATION				
Set Point	1 or 2 set point(Factory set)			
Control Action	ON-OFF			
RESOLUTION	1/0.1 (Configurable)			
Accuracy	±1% of FSD			
Power Supply	230V AC, ±10%, 50Hz			
Indication	"OVER" Message is displayed if signal is more than maximum "LOW" Message is displayed if signal is less than minimum.			
Enclosure Material	Plastic			
Operating Ambient Temp.	0 C to 55 C			
Relative Humidity	Up to 95% RH Non Condensing			

NOTE: In all model 1-Relay output or Extra Excitation 24V DC can be made available.

PROCESS CONTROL INSTRUMENT
Full Function Process Indicator

Process Indicator

0599

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SET ∧ ∨

PI-1100N

Process Indicator

0100

SOLAR
DIGITAL METER

SET ∧ ∨

PI-2100N

Process Indicator

0599

SOLAR ®
DIGITAL METER

SET ∧ ∨

PI-3100N(H)

Process Indicator

0100

SOLAR
DIGITAL METER

SET ∧ ∨
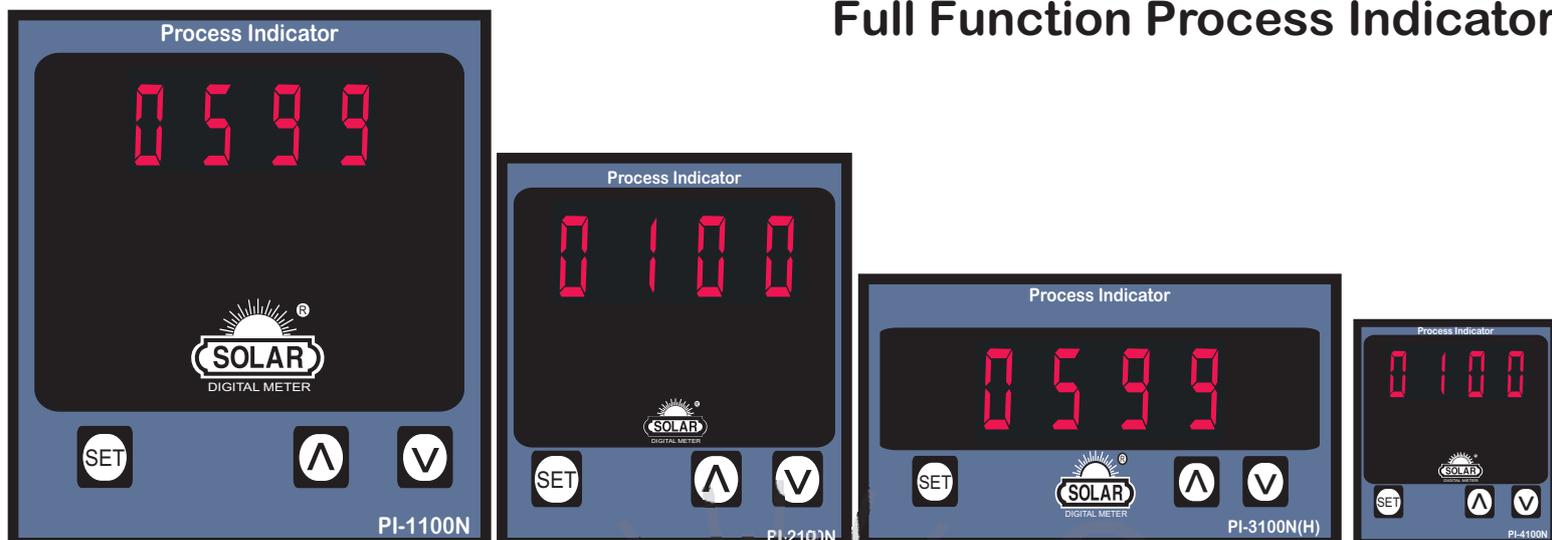
PI-4100N

MODEL	**PI-1100N**	**PI-2100N**	**PI-3100N**	**PI-4100N**
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	44 x 44
Display	Single Display: 7-Segment, 4-Digit, 0.56" RED LED Display			Single Display: 7-Segment, 4-Digit, 0.4" RED LED Display

INPUT

Signal	0-10V DC/4-20mA DC/0-20 mA DC (Configurable)	J / K / PT-100 2W/3W (Factory Set)
Range	-999 to 9999 (Selectable)	J(0°C to 600°C) , K(0°C to 1200°C), PT-100 2W/3W (-50°C TO 400°C)

Extra Features

SPECIFICATION

Correction Factor, Offset, Filtration Rate

Range & Decimal Point Selectable , Reverse Scaling is available as per customer demand.

RESOLUTION

	1/0.1 (Configurable)
Accuracy	±1% of FSD
Power Supply	230V AC, ±10%, 50Hz
Indication	"OVER" Message is displayed if signal is more than maximum " LOW " Message is displayed if signal is less than minimum.
Enclosure Material	Plastic
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

NOTE: In all model 1-Relay output or Extra Excitation 24V DC can be made available.
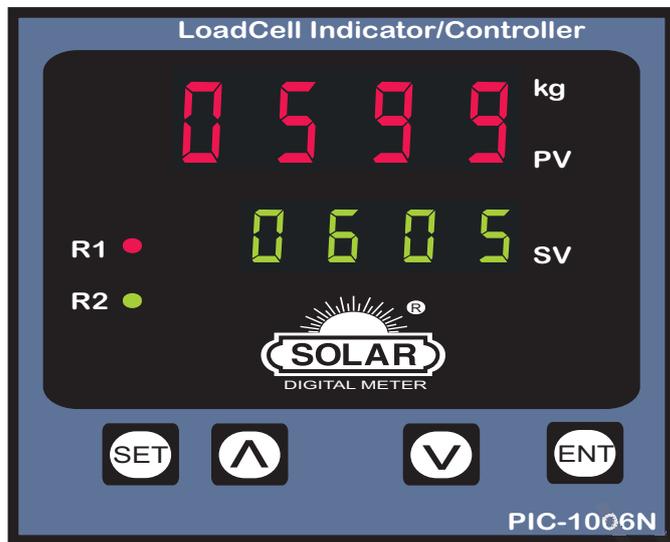
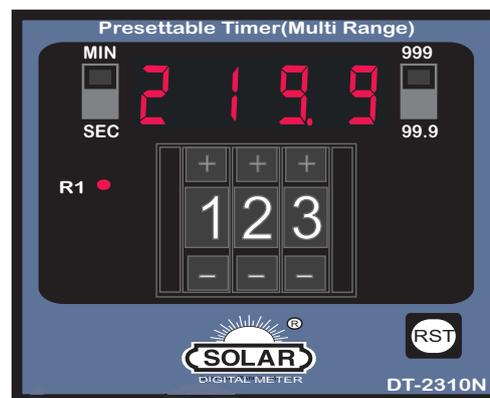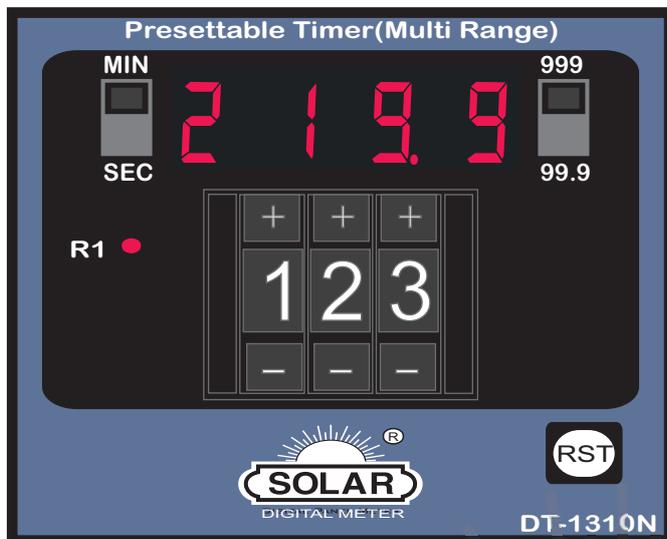# PROCESS CONTROL INSTRUMENT
LOAD CELL INDICATOR / CONTROLLER

LoadCell Indicator/Controller

0599 kg PV

R1 ● 0605 SV
R2 ●

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SET ∧ ∨ ENT

PIC-1006N

MODEL	PIC-1006N		
Dimension(HxWxD)mm	96 x 96 x 50		
Panel Cutout(mm)	92 x 92		
Display	Single Display: 7-Segment, 4-Digit, 0.56" RED LED Display - Weight		
INPUT			
Signal	0-20mV DC		0-10V DC/4-20mA DC/0-20 mA DC (Configurable)
Range	0 to 9999 (Selectable)		-999 to 9999 (Selectable)
OUPUT			
Control Output	1-Relay/SSR/Buzzer		
Excitation Voltage	12V DC (Approximately)		
SPECIFICATION			
Set Point	1 or 2 set point(Factory set)		
Control Action	ON-OFF		
RESOLUTION	0.000/00.00/000.0/0000(Configurable)		
Accuracy	±1% of FSD		
Power Supply	230V AC, +10%, 50Hz		
Indication	"OVER" Message is displayed if signal is more than maximum " LOW " Message is displayed if signal is less than minimum.		
Enclosure Material	Plastic/Metal		
Operating Ambient Temp.	0 C to 55 C		
Relative Humidity	Up to 95% RH Non Condensing		

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DIGITAL PROGRAMMABLE TIMER
Universal Range

MODEL	DT-4401N	DT-4402N	DT-1044N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 44
Display	**Upper Display:** 7-Segment, 4-Digit, 0.56" RED LED Display (Time) **Lower Display:** 7-Segment, 4-Digit, 0.4" GREEN LED Display (Set Time)		**Upper Display:** 7-Segment, 4-Digit, 0.4" RED LED Display(Time) **Lower Display:** 7-Segment, 4-Digit, 0.3" GREEN LED Display(Set Time)

INPUT

Start Pulse	Proximity / Micro Switch / Limit Switch (not available in 48x48 size)
Start Pulse Type	Power On / Enable / Trigger (not available in 48x48 size)

OUTPUT

Output	1-Relay
Relay Rating	1 C/O ,5A, 230V AC (2 C/O is also available)
SSR/BUZZER	12V DC/24V DC approximately (optional)

SPECIFICATION

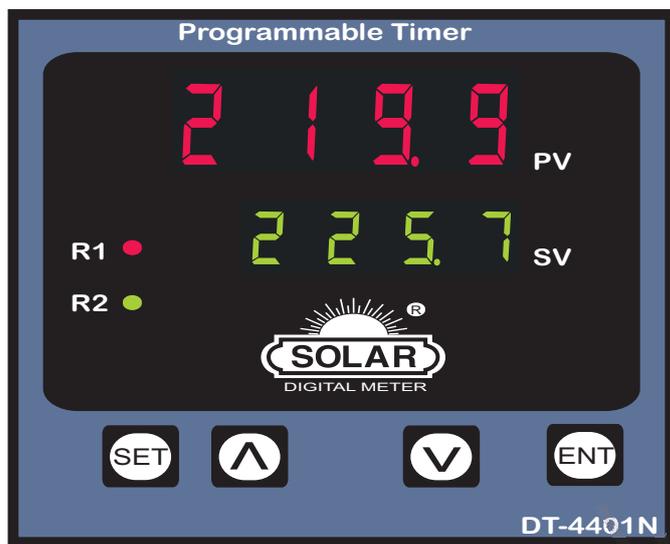|	
Set Point	1-Set Point (Push Button to set SET point)
Operating Mode	Delayed ON/Instant ON/Cycle Mode(Configurable)
Reset Facility	From Front (Also from back side as per demand)
Time Setting Range	0.000/00.00/000.0/0000 to 9.999/99.99/999.9/9999 sec/min/hour(Configurable)
Counting Direction	Up/Down(Configurable)
Memory Retention	Yes/No(Configurable)
Parameter Lock Facality	ON/OFF(Configurable)
Power Supply	230V AC, +10%, 50Hz
Indication	LED for Relay status Indication
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

DIGITAL PRESETTABLE TIMER
Multi-Range

MODEL	DT-1310N	DT-2310N	
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	
Panel Cutout(mm)	92 x 92	68 x 68	
Display	**Upper Display:** 7-Segment, 4-Digit, 0.56" RED LED Display (Time) **Lower Display:** 7-Segment, 4-Digit, 0.4" GREEN LED Display (Set Time)	**Upper Display:** 7-Segment, 4-Digit, 0.4" RED LED Display(Time) **Lower Display:** 7-Segment, 4-Digit, 0.3" GREEN LED Display(Set Time)	
INPUT			
Start Pulse	Proximity / Micro Switch / Limit Switch (Optional)		
Start Pulse Type	Power On / Enable / Trigger (Optional)		
OUTPUT			
Output	1-Relay		
Relay Rating	1 C/O ,5A, 230V AC (2 C/O is also available)		
SSR/BUZZER	12V DC/24V DC approximately (optional)		
SPECIFICATION			
Set Point	1-Set Point (Push Button to set SET point)		
Operating Mode	Delayed ON/Instant ON/Cycle Mode(Factory set)		
Reset Facility	From Front (Also from back side as per demand)		
Time Setting Range	000.0/0000 to 999.9/9999 (Configurable)		
Counting Direction	Up/Down(Factory set)		
Power Supply	230V AC, +10%, 50Hz		
Indication	LED for Relay status Indication		
Enclosure Material	Plastic/Metal		
Operating Ambient Temp.	0 C to 55 C		
Relative Humidity	Up to 95% RH Non Condensing		

PROGRAMMABLE LAUNDRY TIMER

Programmable Laundry Timer

FRT-1044N

Programmable Laundry Timer

FRT-2201N

MODEL	FRT-1044N	FRT-2201N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85
Panel Cutout(mm)	92 x 92	68 x 68

Display	
	Upper Display: 7-Segment, 4-Digit, 0.56" RED LED Display (Time)
	Lower Display: 7-Segment, 4-Digit, 0.4" GREEN LED Display (Set Time)

INPUT

Start Pulse	Proximity / Micro Switch / Limit Switch (Optional)

OUTPUT

Output	2-Relay
Relay Rating	1 C/O ,5A, 230V AC

SPECIFICATION

Set Point	4-Set Point (Push Button to set SET point) Forward,Stop,Reverse,Total Time(Optional)
Start Command	Start and Stop Facility are available from Front Keypad
Operating Mode	Laundry Function
Reset Facility	From Front (Also from back side as per demand)
Time Setting Range	As per customer demand
Counting Direction	Up/Down(Factory set)
Power Supply	230V AC, +10%, 50Hz
Indication	LED for Relay status Indication
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

![SOLAR DIGITAL METER logo]

PROGRAMMABLE TIMER
MULTI OUTPUT

MODEL	DT-4401N	DT-4402N	DT-1044N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 48 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 44
Display	**Upper Display:** 7-Segment, 4-Digit, 0.56" RED LED Display (Time) **Lower Display:** 7-Segment, 4-Digit, 0.4" GREEN LED Display (Set Time)		**Upper Display:** 7-Segment, 4-Digit, 0.4" RED LED Display(Time) **Lower Display:** 7-Segment, 4-Digit, 0.3" GREEN LED Display(Set Time)

INPUT

Start Pulse	Proximity / Micro Switch / Limit Switch (Factory set)
Start Pulse Type	Power On/ Enable / Trigger (Factory set)

OUTPUT

Output	1 OR 2-Relay/SSR/Buzzer
Relay Rating	1 C/O ,5A, 230V AC
SSR/BUZZER	12V DC approximately

SPECIFICATION

Set Point	Up to 4-Set Point (Push Button to set SET point)
Start Command	Start and Stop Facility are available from Front Keypad
Operating Mode	Delay On/ Delay Off/ Cycle Mode (Factory set)
Reset Facility	From Front (Also from back side as per demand)
Time Setting Range	As per customer demand
Counting Direction	Up/Down(Factory set)
Power Supply	230V AC, +10%, 50Hz
Indication	LED for Relay status Indication
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

Solar
DIGITAL METER

PROGRAMMABLE SEQUENTIAL TIMER
UP TO 8-CHANNEL

Programmable Timer

R1 R2 R3 R4 R5 R6 R7 R8

18.99

71.47

SET ∧ ∨ ENT

UTR-4408

| **MODEL**	**UTR-4408N**
Dimension(HxWxD)mm	96 x 96 x 85
Panel Cutout(mm)	92 x 92
Display	**Upper Display:** 7-Segment, 4-Digit, 0.56" RED LED Display (Time) **Lower Display:** 7-Segment, 4-Digit, 0.4" GREEN LED Display (Set Time)

INPUT

Start Pulse	Proximity / Micro Switch / Limit Switch (Factory set)
Start Pulse Type	Power On/ Enable / Trigger (Factory set)

OUTPUT

Output	Upto 8-Relay/SSR/Buzzer
Relay Rating	1 C/O ,5A, 230V AC
SSR/BUZZER	12V DC approximately

SPECIFICATION

Set Point	Up to 8-Set Point (Push Button to set SET point)
Start Command	Start and Stop Facility are available from Front Keypad
Operating Mode	Delay On/ Delay Off/ Cycle Mode (Factory set)
Reset Facility	From Front (Also from back side as per demand)
Cascading	possible upto 2-Timer
Time Setting Range	As per customer demand
Counting Direction	Up/Down(Factory set)
Power Supply	230V AC, +10%, 50Hz
Indication	LED for Relay status Indication
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

DIGITAL TIME TOTALISER
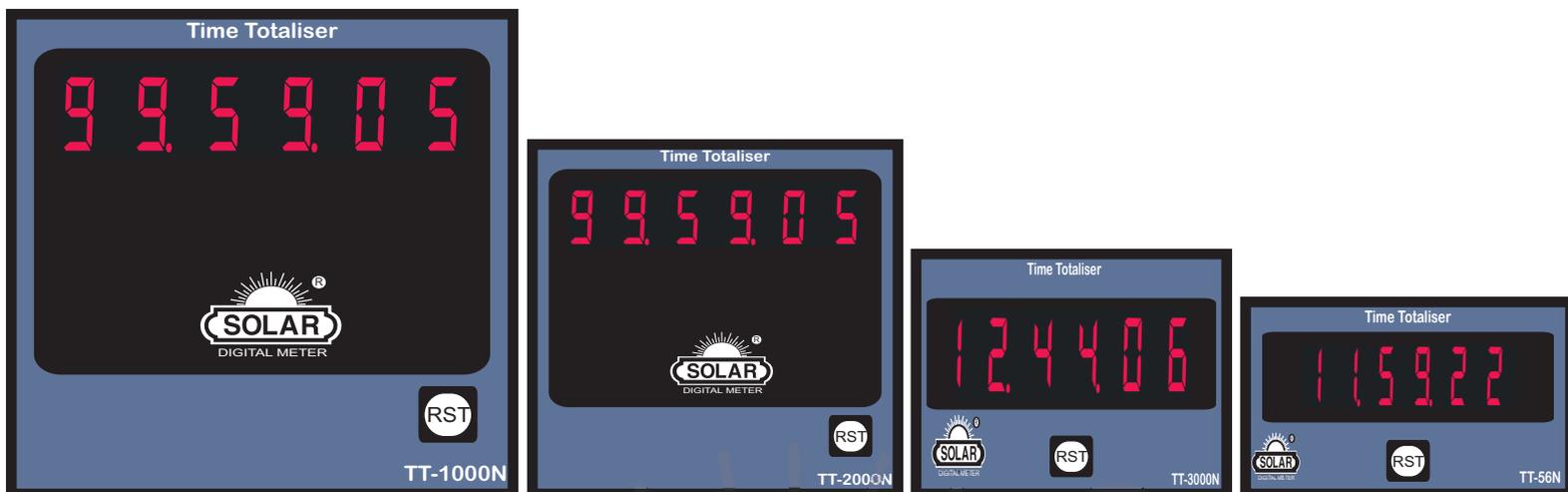
MODEL	TT-1000N	TT-2000N	TT-3000N	TT-56N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	38 x 62 x 75
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	31 x 54
Display	Display: 7-Segment, 6-Digit, 0.4" RED LED Display (Time)		Display: 7-Segment, 6-Digit, 0.3" RED LED Display (Time)	

INPUT

Start Pulse	Proximity / Micro Switch / Limit Switch (Optional)
Start Pulse Type	Power On / Enable / Trigger (Optional)

SPECIFICATION

|	
Reset Facility	From Front (Also from back side as per demand)
Time Setting Range	As per Customer Demand
Counting Direction	Up/Down(Factory set)
Memory Retention	Non-Volatile Memory
Power Supply	230V AC, +10%, 50Hz
Indication	LED for Relay status Indication
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

DIGITAL RPM INDICATOR
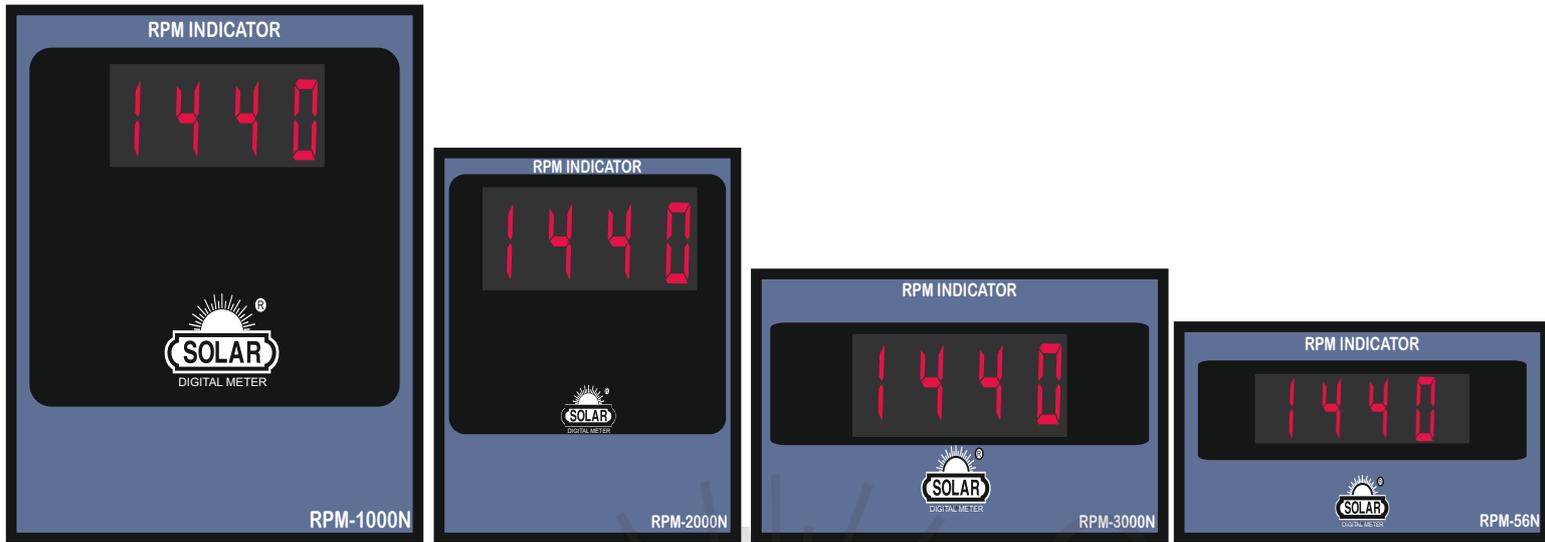
MODEL	RPM-1000N	RPM-2000N	RPM-3000N	RPM-56N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	38 x 62 x 75
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	31 x 54
Display	**Display:** 7-Segment, 4-Digit, 0.4" RED LED Display		**Display:** 7-Segment, 4-Digit, 0.3" RED LED Display	
Range	0-5000 RPM			

INPUT

Input Signal	PNP / NPN Proximity / Micro Switch / Limit Switch (Configurable)
Input Frequency	Max. 80 Hz

SPECIFICATION

Power Supply	230V AC, +10%, 50Hz (Also available in 24V DC power supply)
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

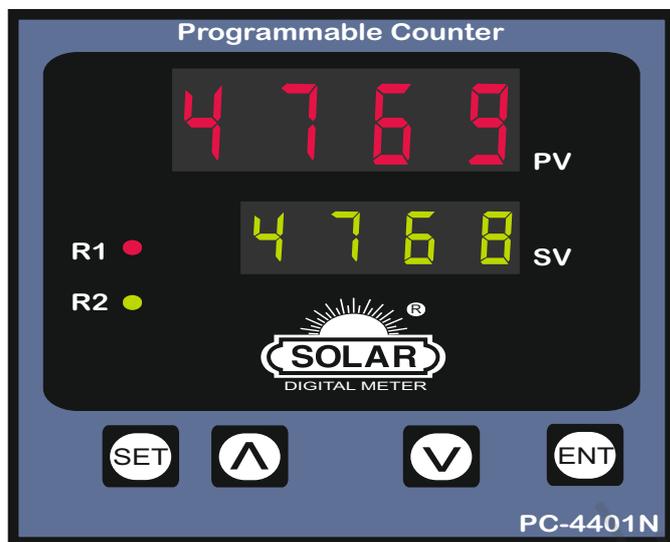Note : Pulse Ratio & Input Frequency upto 3 Khz available as customer request.

DIGITAL COUNT TOTALISER
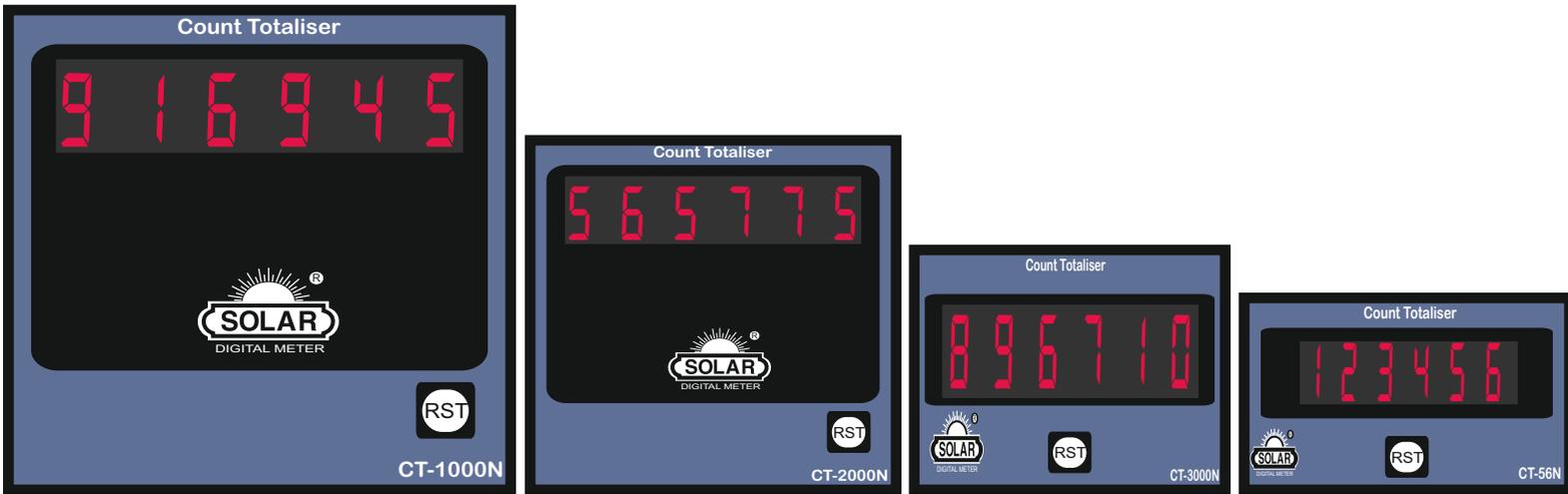
MODEL	CT-1000N	CT-2000N	CT-3000N	CT-56N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85	38 x 62 x 75
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92	31 x 54
Display	Display: 7-Segment, 6-Digit, 0.4" RED LED Display		Display: 7-Segment, 4-Digit, 0.3" RED LED Display	
Range	0-9999999 Count			

INPUT

Input Signal	PNP / NPN Proximity / Micro Switch / Limit Switch (Configurable) OR 230V AC Pulse OR Encoder
Input Frequency	Max. 80 Hz

SPECIFICATION

Reset Facility	Manual reset at Front Key (Reset at back also available as per demand)
Memory Retention	Non-Volatile Memory
Power Supply	230V AC, +10%, 50Hz
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

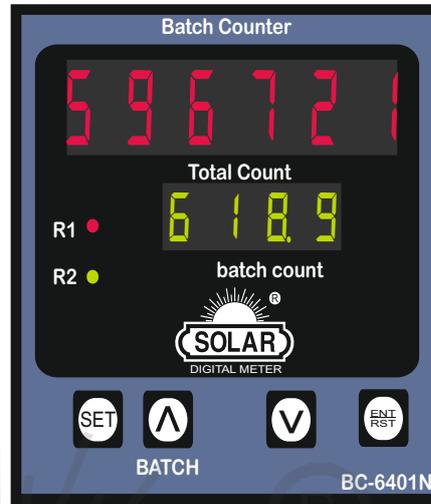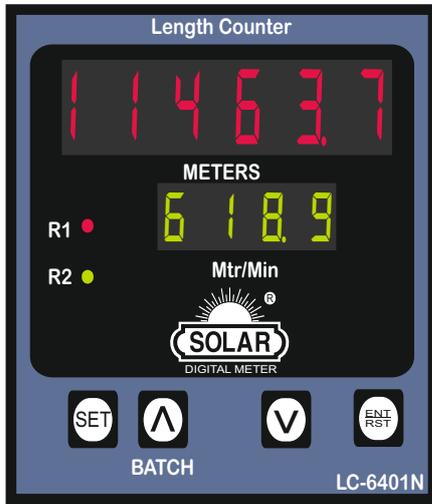Note : Pulse Ratio & Input Frequency upto 3 Khz available as customer request.

DIGITAL PROGRAMMABLE COUNTER

Programmable Counter — PC-4401N

Programmable Counter — PC-4402N

MODEL	PC-4401N	PC-4402N	PC-6401N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	96 x 96 x 90
Panel Cutout(mm)	92 x 92	68 x 68	92 x 92
Display	**Upper Display:** 7-Segment, 4-Digit,0.56" RED LED Display(Process Value) **Lower Display:** 7-Segment, 4-Digit,0.4" GREEN LED Display(Set Value)		**Upper Display:** 7-Segment, 6-Digit,0.4" RED LED Display(Process Value) **Lower Display:** 7-Segment, 4-Digit,0.4" GREEN LED Display(Set Value)
Range	0-9999 Count		0-999999 Count

INPUT

Input Signal Input Frequency	PNP / NPN Proximity / Micro Switch / Limit Switch (Configurable) OR 230V AC Pulse OR Encoder Max. 80 Hz

OUTPUT

Output	1/2/3-Relay/SSR/Buzzer
Relay Rating	1 C/O ,5A, 230V AC
SSR/BUZZER	12V DC approximately

SPECIFICATION

Set Point	1-Set Point (More than one set points are available as per demand
Auto Time	0-99.9 Sec (Selectable)
Count Direction	UP/DOWN(Factory Set)
Reset Facility	Manual reset at Front Key (Reset at back also available as per demand)
Memory Retention	Non-Volatile Memory
Power Supply	230V AC, +10%, 50Hz
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

Note : Pulse Ratio & Input Frequency upto 3 Khz available as customer request.

SOLAR DIGITAL METER ®

DIGITAL LENGTH COUNTER
DIGITAL BATCH COUNTER

MODEL	LC-6401N	LC-6402N	BC-6401N	BC-6402N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	96 x 96 x 50	72 x 72 x 85
Panel Cutout(mm)	92 x 92	68 x 68	92 x 92	68 x 68
Display	**Upper Display:** 7-Segment, 6-Digit,0.4" RED LED Display(Process Value) **Lower Display:** 7-Segment, 4-Digit,0.4" GREEN LED Display(Set Value)		**Upper Display:** 7-Segment, 6-Digit,0.4" RED LED Display(Process Value) **Lower Display:** 7-Segment, 4-Digit,0.4" GREEN LED Display(Set Value)	
Range	0-999999 Meters Upper Display 0-9999 Meters Lower Display		0-999999 Count Upper Display 0-9999 Count Lower Display	

INPUT

Input Signal	PNP / NPN Proximity / Micro Switch / Limit Switch (Configurable) OR 230V AC Pulse OR Encoder
Input Frequency	Max. 80 Hz

OUTPUT

Output	1/2/3-Relay/SSR/Buzzer
Relay Rating	1 C/O, 5A, 230V AC
SSR/BUZZER	12V DC approximately

SPECIFICATION

|	
Set Point	1-Set Point (More than one set points are available as per demand
Diameter	0-99999.9mm (Only For Length Counter)
Auto Time	0-99.9 Sec (Selectable)
Reset Facility	Manual reset at Front Key (Reset at back also available as per demand)
Memory Retention	Non-Volatile Memory
Indication	LED For Relay Status Indication
Power Supply	230V AC, +10%, 50Hz
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

Note : Pulse Ratio & Input Frequency upto 3 Khz available as customer request.
In Above Model, FILL-SEAL Counter is also available
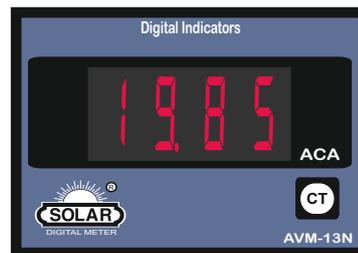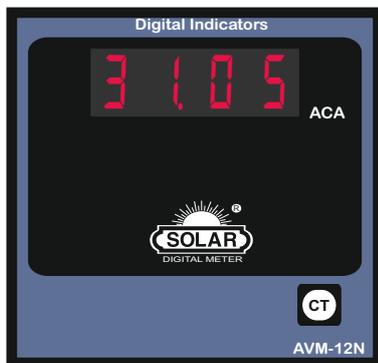
DIGITAL VOLT METER(AC)
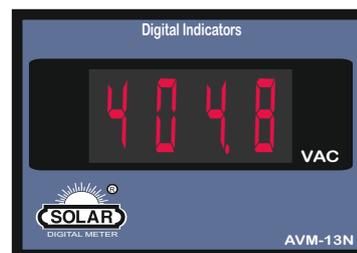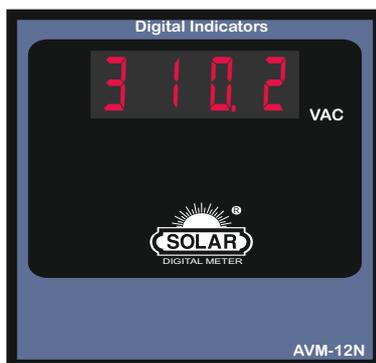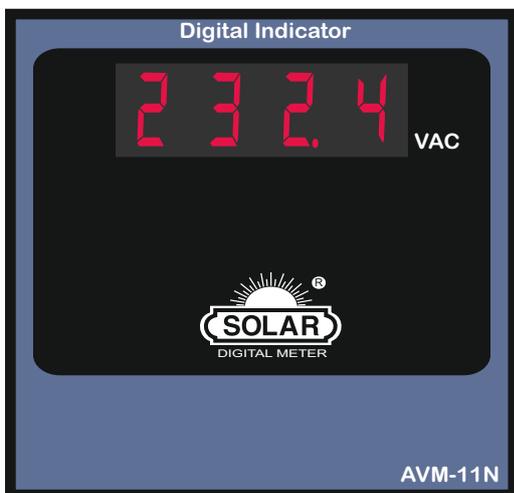
MODEL	AMV-11N	AVM-12N	AVM-13N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92

Display	**Display:** 7-Segment, 4-Digit, 0.56" RED LED Display
Range	0-750 VAC (AC VOLTAGE)

INPUT

Input Signal	AC Voltage to be measured Max. 750 Vac
Input Frequency	Max. 60 Hz

SPECIFICATION

Power Supply	230V AC, +10%, 50Hz(Also available in 24VAC or 440VAC)
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

DIGITAL VOLT METER(DC)
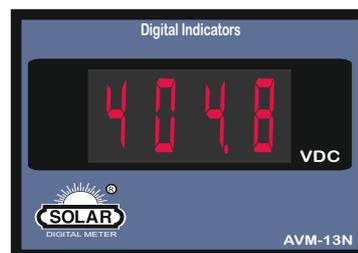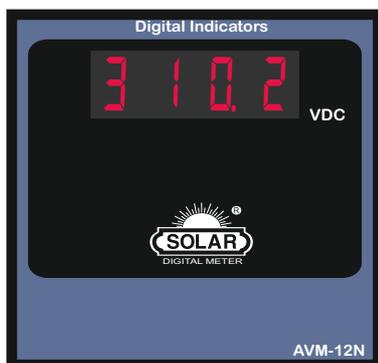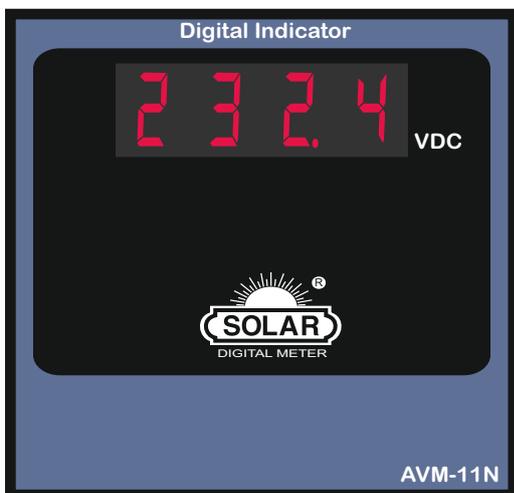
MODEL	AMV-11N	AVM-12N	AVM-13N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92
Display	**Display:** 7-Segment, 4-Digit, 0.56" RED LED Display		
Range	Max. 0-1000 VDC (DC VOLTAGE)		

INPUT

Input Signal	DC Voltage to be measured Max. 1000 Vac

SPECIFICATION

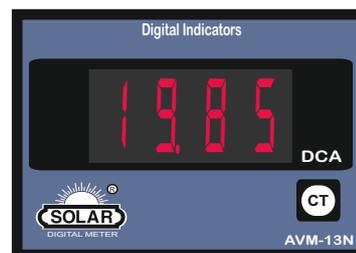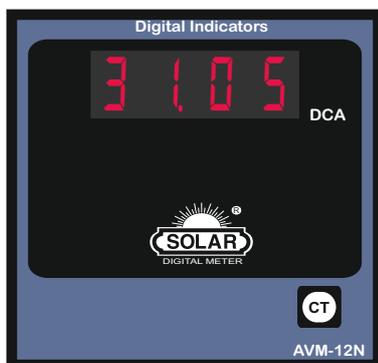| Power Supply	230V AC, +10%, 50Hz(Also available in 24VAC or 440VAC)
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

DIGITAL AMP. METER(AC)

Digital Indicator

50.00 ACA

SOLAR
DIGITAL METER

CT

AVM-11N

Digital Indicators

31.05 ACA

SOLAR
DIGITAL METER

CT

AVM-12N

Digital Indicators

19.85 ACA

SOLAR
DIGITAL METER

CT

AVM-13N

MODEL	AMV-11N	AVM-12N	AVM-13N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92

Display	**Display:** 7-Segment, 4-Digit, 0.56" RED LED Display
Amp. Range	0-CT Ratio ACA (AC Current)
CT Ratio Range	0-4000 Max.

INPUT

Input Signal	AC Current to be measured.
Input Frequency	Max. 60 Hz

SPECIFICATION

Power Supply	230V AC, +10%, 50Hz(Also available in 24VAC or 440VAC)
Decimal Point Display	Auto shifted as per Amp. Range
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

SOLAR
DIGITAL METER

DIGITAL AMP. METER(DC)

Digital Indicator

50.00 DCA

SOLAR
DIGITAL METER

CT

AVM-11N

Digital Indicators

31.05 DCA

SOLAR
DIGITAL METER

CT

AVM-12N

Digital Indicators

19.85 DCA

SOLAR
DIGITAL METER

CT

AVM-13N

MODEL	AMV-11N	AVM-12N	AVM-13N
Dimension(HxWxD)mm	96 x 96 x 50	72 x 72 x 85	48 x 96 x 85
Panel Cutout(mm)	92 x 92	68 x 68	44 x 92

Display	**Display:** 7-Segment, 4-Digit, 0.56" RED LED Display
Amp. Range	0-Shunt Selection DCA(DC Current)
Shunt Range	0-3000 Max.

INPUT

Input Signal	DC Voltage to be measured.
Input Voltage from Shunt	Max. 75 mV (Standard range available)

SPECIFICATION

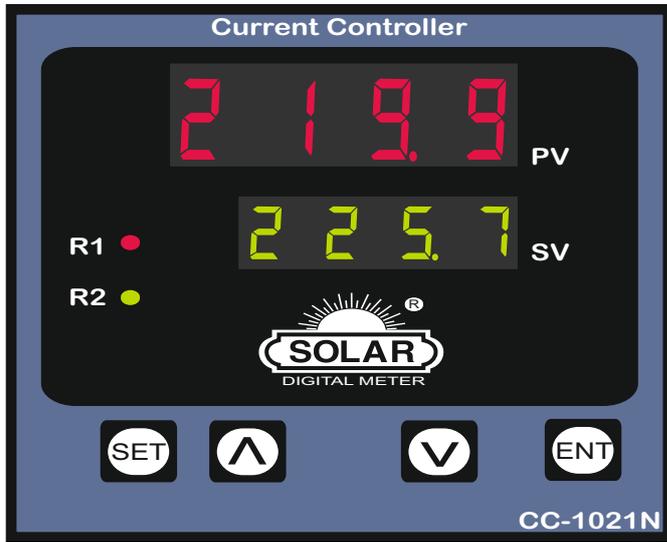|	
Power Supply	230V AC, +10%, 50Hz(Also available in 24VAC or 440VAC)
Decimal Point Display	Auto shifted as per Amp. Range
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

Amp. Volt Frequency(AVF)
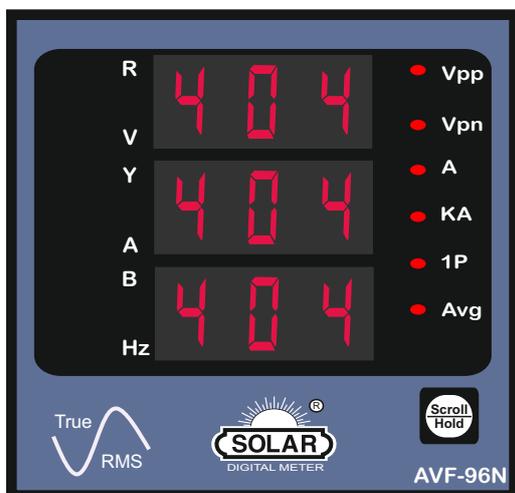
MODEL	AVF-96
Dimension(HxWxD)mm	96 x 96 x 50
Panel Cutout(mm)	92 x 92
Display	**Display:** 7-Segment, 3-Digit, 0.56" RED LED Display
Amp. Range	0-CT Ratio ACA (AC Current)
CT Ratio Range	0-3000 Max.

INPUT

Input Signal	3 Phase 4-wired / 3 Phase 2-wired / 1 Phase 2-wired (User Configurable)
Voltage Range	450 VAC (P-P) or 320 VAC(P-N)
Current Range	Up to 3000/5 CT Ration Selection

SPECIFICATION

Power Supply	230V AC, +10%, 50Hz(Also available in 24VAC or 440VAC)
Decimal Point Display	Auto shifted as per Amp. Range
Parameter Page	Voltage (P-P) , Voltage (P-N) , Avg. Voltage (P-P) , Avg. Voltage(P-N), Line Current (R-Y-B) , Avg. Current (R-Y-B) , Frequency
Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

Features:

True RMS
Auto Decimal Shifting for Current resolution (0.01A to 1.0 A)
Auto Scrolling or manual Mode Selection
Killo Amp. Led is also available

AMP. CONTROLLER

Current Controller

2 1 9 . 9 PV

R1 ● 2 2 5 . 7 SV

R2 ●

SOLAR ®
DIGITAL METER

SET ∧ ∨ ENT

CC-1021N

MODEL	CC-1021N
Dimension(HxWxD)mm	96 x 96 x 50
Panel Cutout(mm)	92 x 92

Display	**Upper Display:** 7-Segment, 4-Digit, 0.56" RED LED Display (Current Value) **Lower Display:** 7-Segment, 4-Digit, 0.4" GREEN LED Display (Set Value)

INPUT

Amp. Range	Max. 5 Amp. (CT Ratio selection is up to 3000/5 max.)

OUTPUT

Output	1 OR 2-Relay/SSR/Buzzer
Relay Rating	1 C/O ,5A, 230V AC
SSR/BUZZER	12V DC approximately

SPECIFICATION

Set Point	Up to 4-Set Point (Push Button to set SET point) Minimum 1- set point with HYST parameter Also delay time is there for relay on-off action
Time Setting Range	As per customer demand

Power Supply	230V AC, +10%, 50Hz
Indication	LED for Relay status Indication

Enclosure Material	Plastic/Metal
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

Features : Two Relay are also available for FRD and REV Function for motor operation or as per customer logic demand.

CUSTOMISED CONTROL CARD

THYRISTOR CONTROL CARD
1-Phase or 3-Phase

MODEL	Thyristor Control Card
INPUT	
Input Signal	0-5V DC / 0-10V DC / 4-20mA / Potentiometer (Factory Set)
OUTPUT	
Output	Thyristor Conduction upto 200 Amp.(Output Signal is not pure sine wave)

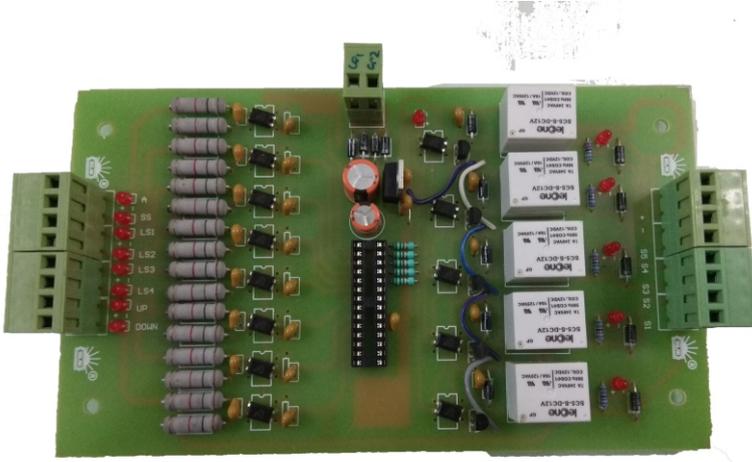| SPECIFICATION	
Soft Start/Stop	Yes (upto 5 Sec)
Load Connection Method	Pure Star Connection / Floating Star Connection(Factory Set)
Auto Time	0-99.9 Sec (Selectable)
Action Update Time	500 mS (can be change as per customer demand)
Load Type	Resistive
Phase Failure Features	Yes
Power Supply	230V AC, +10%, 50Hz with PURE Neutral Connection OR 3-Phase 3-wire
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing

GOODS LIFT LOGIC CARD

MODEL	Lift Logic Card (Small)	Lift Logic Card (Big)
	Max. up to G + 3	Max. up to G + 6
INPUT		
Input Signal	Push Button for All Floor and For all Limit Switches	Push Button for All Floor and For all Limit Switches
Max. Input	up tp G + 3	up tp G + 6
OUTPUT		
Output	24 VDC OUTPUT FOR FRD AND REV	2-Relay (Frd and Rev for Motor)
Relay Rating		1 C/O 5 Amp.
SPECIFICATION		
Logic	As per standard goods lift	As per standard goods lift
Indication	LED for All Input and For All Output	LED for All Input and For All Output
Power Supply	24V AC/DC	3-PHASE , 3-WIRE
FEATURE	Door lock Protection, Stop Button for any time stop lift , No extra supply for Push button and or Limit switches.	In Built SPP protection, Over weight protection , Buzzer on when Lift is in run mode , Door lock Protection, Stop Button for any time stop lift , call LED retention , No extra supply for Push button and or Limit switches.
Operating Ambient Temp.	0 C to 55 C	
Relative Humidity	Up to 95% RH Non Condensing	

Note : This Lift logic card is only used in goods lift but not for passenger lift.

INPUT-OUTPUT CARD &
Digital IO with LCD Display

MODEL	Input Output Control Card & Digital Input Digital Output with 16x2 LCD Display

INPUT

Input Signal	Potential Free Contact/12V/24V switching (Factory Set)
Max. Input	8 - Digital

OUTPUT

Output	1/2/3/4/5 Relay (Factory Set)
Relay Rating	1 C/O 5 Amp.
Max. Ouput	5 - Digital

SPECIFICATION

Logic	As per Customer Demand
Indication	LED for All Input and For All Output
Power Supply	24V AC/DC
Operating Ambient Temp.	0 C to 55 C
Relative Humidity	Up to 95% RH Non Condensing
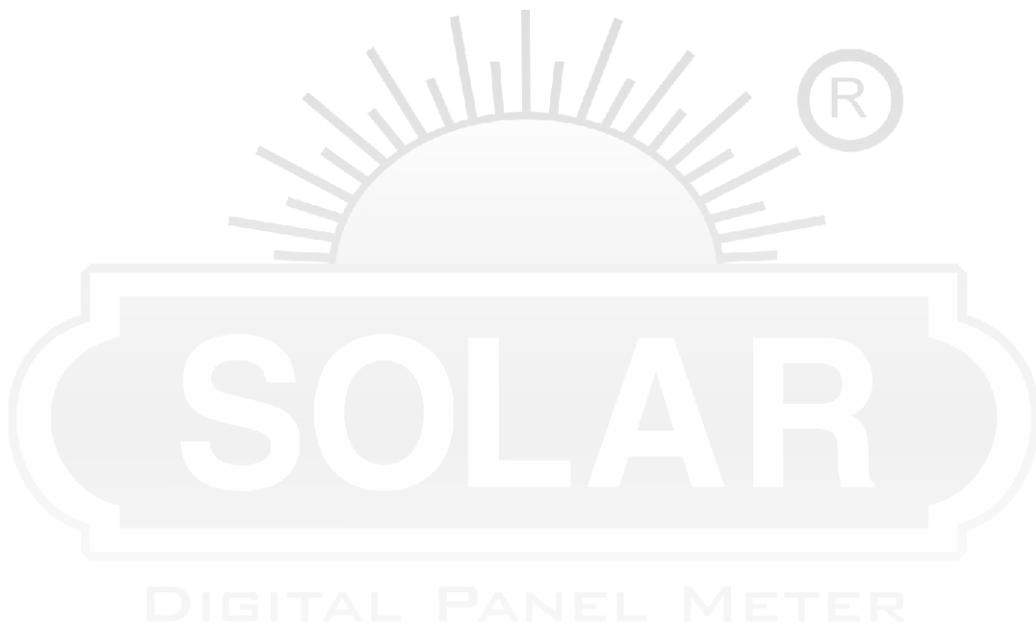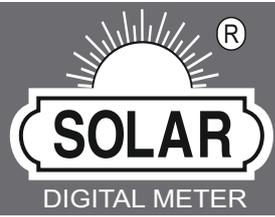
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