

FEATURES

- Under current, Over current protection
- True RMS value measurement
- User selectable Power ON delay, Trip time delay and Recovery time delay
- · Adjustable hysteresis
- Two alarm relays with NC or NO operation selectable

SPECIFICATIONS

DISPLAY

3 Digits, LCD with backlight

ELECTRICAL CONNECTION

1Ø - 2 wire

AUXILIARY SUPPLY

85 - 270V AC/DC

50 / 60Hz

POWER CONSUMPTION

4VA max

CT PRIMARY SETTING

1A / 5A-999A

CT SECONDARY SETTING

1A or 5A (Selectable)

TRIP SETTINGS

Under Current : 0 - 999A (0-100% of CT Primary Setting) Over Current : 0.5A - 1.19kA (10-120% of CT Primary Setting)

TIME SETTINGS

Response Time :< 200ms Trip time delay : 0 – 99.9 sec. Power ON Delay: 0.5-99.9sec. Recovery Time : 0-99.9sec **MAXIMUM CURRENT INPUT**

120% of CT Primary setting

HYSTERESIS

0.1 - 99.9A

RESOLUTION

0.01, 0.1, 1A, 0.01kA (Depends on CT setting)

ACCURACY

Current: ±1% of Setting, ±2 digits Time (Trip Time, Recovery Time,

Power ON Delay): ±5% of setting ± 200ms

OUTPUT SPECIFICATIONS

2 Relays: Relay1:1C/O (SPDT) Relay2: 1C/O(SPDT)

RELAY RATING

NO (5A, 250V AC) NC (3A, 250V AC)

LED INDICATION

LED1(Red): Relay1(Continuously ON after trip) LED2(Red): Relay2(Continuously ON after trip)

ENVIRONMENTAL SPECIFICATIONS

- Indoor use
- Altitude of up to 2000 meters
- Pollution degree II

Temperature : Operating : 0°C to 50°C

Storage :-20°C to 70°C

: Up to 95% RH, non-condensing Humidity

MECHANICAL SPECIFICATIONS

No. of Push Buttons: 3 Size: 35mm width

Mounting: 35mm Din Rail Mount

Wire Size (max): 4 sq.mm

Screw tightening torque: 0.5 N-M

WEIGHT

150 gms.

▲ SAFETY PRECAUTIONS

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

If there is physical damage to the unit then do not use it.

Read complete instructions prior to installation and operation of the unit.

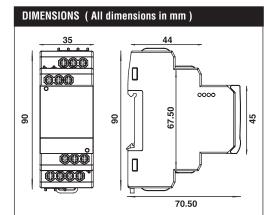
WIRING GUIDELINES

★ WARNING

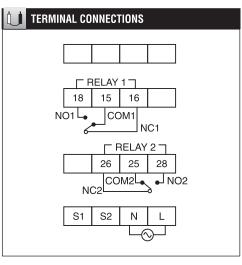
- 1. To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement.
- 2. Wiring shall be done strictly according to the terminal layout with shortest connections. Confirm that all connections are correct.

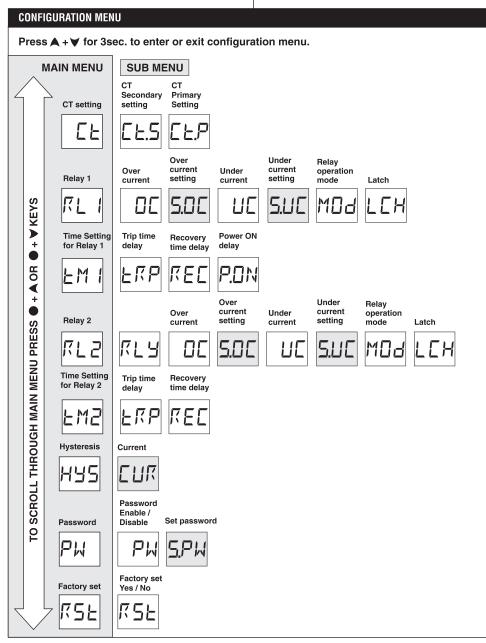
! CAUTION

- 1. To ensure the safe operation of unit, check the wiring and connections.
- 2. It is recommended to test the unit periodically to satisfy the regulations.



LED INDICATION CHART								
Various Conditions	'R1' LED	'R2' LED						
No fault	OFF	OFF						
Trip (Relay 1)	ON	OFF						
Trip (Relay 2)	OFF	ON						
Trip (If programmed for both relays)	ON	ON						





Note: Appearance of shaded menus dependant on selection of other parameters

CT setting	(CT)		Press ▲ to e	enter sub menu from main menu
Press ▲ or through su		Press ● + ▲ or ● + ▼ to change parameter value		
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE	CONDITION
C Ł.5	CT Secondary setting	Ŝ	1A / 5A	
C Ł.P	CT Primary setting	IDÔ	5 - 999A (If CT.S is 5A) 1 - 999A (If CT.S is 1A)	
Relay 1 (R	RL1)		Press ▲ to e	enter sub menu from main menu
Press ▲ or through su			Press ● + ▲ or ● + ▼ to cha	nge parameter value
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE	CONDITION
	Over current	PI A	ON / OFF	
5.00	Over current setting	R1 A	0.5A - 1.19kA 10-120% of CT Primary setting	This option will be prompted only when OC option is made ON in config. menu. OC setting cannot go below the UC setting. e.g. If UC is 50A, OC setting cannot go below 50
ЦΕ	Under current	RI A	ON / OFF	
5.40	Under current setting	5 O,O	0 – 999A 0 – 100% of CT Primary setting	This option will be prompted only when UC option is made ON in config. menu. UC setting cannot grabove the OC setting. e.g. If OC is 100A, UC setting will be limited till 100A only.
MOd	Relay operation mode		ON / OFF	ON: NO (During Trip) OFF: NC (During Trip)
LEH	Latch		ON / OFF	If Latch is ON, user has to reset the unit manually when fault is removed
Time Setti	ng for Relay 1 ((TM1)	Press ▲ to	enter sub menu from main menu
Press ▲ or through su			Press ● + ▲ or ● + ▼ to cha	nge parameter value
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE	CONDITION
LKP	Trip time delay	R1 t	0.0 - 99.9s	
REC	Recovery time delay	R1 t off	0.0 - 99.9s	
P.ON	Power ON delay	5.0	0.5 - 99.9s	

Doc. name : OP INST 900CPR-1-BL-U

Relay 2 (RL2)				Press ▲ to enter sub menu from main menu	
Press ▲or ▼ to scroll through sub menu Press ● +		+ ▲ or ● + ▼ to change parameter value			
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE		RANGE	CONDITION
KLA	Relay	R2	RL1 / RL2		If RL1 is selected, all the settings done for RL1 & TM1 will be automatically set for RL2 and no other parameter of RL2 & TM2 will be prompted.
	Over current	P2	ON / OFF		
5.00	Over current setting	>	0.5A - 1.19k 10-120% of	A CT Primary setting	This option will be prompted only when OC option is made ON in config. menu. OC setting cannot go below the UC setting. e.g. If UC is 50A, OC setting cannot go below 50A
ЦΕ	Under current	R2 A	ON / OFF		
5.40	Under current setting	5 C. C	0 – 999A 0 – 100% o	f CT Primary setting	This option will be prompted only when UC option is made ON in config. menu. UC setting cannot go above the OC setting. e.g. If OC is 100A, UC setting will be limited till 100A only.
MDd	Relay operation mode		ON / OFF		ON : NO (During Trip) OFF : NC (During Trip)
LEH	Latch		ON / OFF		If Latch is ON, user has to reset the unit manually when fault is removed

Time Setting for Relay 2 (TM2)			Press A to	Press ▲ to enter sub menu from main menu		
Press A or ▼ to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value		nge parameter value		
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE	CONDITION		
FLL	Trip time delay	R2 t	0.0 - 99.9s			
KEC	Recovery time delay	R2 t off	0.0 - 99.9s			

Hysteresis	s (HYS)	Press ▲ to enter sub menu from main menu		
Press Aor ▼ to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value		
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT RANGE CONDITION		CONDITION
ЕПК	Hysteresis for current	A A	0.1 - 99.9A	

Password	ssword (PW) Press ▲ to enter sub menu from main r			
Press A or ▼ to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value		
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE	CONDITION
PW	Password	d1 5	ENB / DIS	Enable / Disable password protection option
5.PW	Set password		0-999	Will be prompted only when Password option is enabled

NOTE: PW option will be asked when the user enter the config. menu if PW option is enabled in the config menu and the user has to enter the password which he has set in the S.PW (set password) option.

Factory se	et (RST)	Press ▲ to enter sub menu from main menu		
Press Aor ▼ to scroll through sub menu		Press ● + ▲ or ● + ▼ to change parameter value		ge parameter value
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT RANGE CONDITION		CONDITION
rs _E	Reset (Factory set)	ND	YES / NO	

TRIP VALUE	SETTING (Online	Press A	key for 3 sec. to enter or exit	t Trip Value Setting menu :		
Press ▲ or through ma		Press ● + ▲ or ● + ▼ to change parameter value				
DISPLAY (For 1sec)	DESCRIPTION	DEFAULT VALUE	RANGE	CONDITION		
LEK	LOCK	YE5	YES / NO	This option will be prompted first when the user enters the trip setting menu. User has to set NO after which he can access the trip setting menu.		
5.00	Over current setting (RLY 1)	Rt A	0.5A - 1.19kA 10-120% of CT Primary setting	This option will be prompted only when OC option is made ON in config. menu. OC setting cannot go below the UC setting. e.g. If UC is 50A, OC setting cannot go below 50A.		
5.00	Over current setting (RLY 2)		0.5A - 1.19kA 10-120% of CT Primary setting	This option will be prompted only when OC option is made ON in config. menu. OC setting cannot go below the UC setting. e.g. If UC is 50A, OC setting cannot go below 50A.		
5.UC	Under current setting (RLY 1)	5 .	0 – 999A 0-100% of CT Primary setting	This option will be prompted only when UC option is made ON in config. menu. UC setting cannot go above the OC setting. e.g. If OC is 100A, UC setting will be limited till 100A only.		
5.UC	Under current setting (RLY 2)	5 Å Å	0 – 999A 0-100% of CT Primary setting	This option will be prompted only when UC option is made ON in config. menu. UC setting cannot go above the OC setting. e.g. If OC is 100A, UC setting will be limited till 100A only.		
FLL	Trip time delay (RLY 1)	R1 t	0.0 - 99.9s			
FEB	Trip time delay (RLY 2)	R2 t	0.0 - 99.9s			
LEK	LOCK	YES / NO, (In this option if YES is selected by the user, then whenever the user enters the Trip Value Setting, initially LOCK option will be prompted. The user will have to set NO after which he can access the trip setting menu. If the user wants to disable LOCK option, he can set NO when LOCK option is prompted after TRP option.)				
ONLINE H	ONLINE KEYS		arameters can be viewed with every	press of ▼ keys.		
PARAMETER SYMBOL Current L1 A						
	Current					
TRIP INDI	TRIP INDICATION		Trip Indication on press of A key: Trip value will be displayed till the key is pressed.			
RESET	RESET Press ● key for 3sec. to reset manually (Applicable only if Latch is ON)			able only if Latch is ON)		

Master Password: 753

(Specifications subject to change as development is a continuous process.)

Selec Controls Pvt. Ltd., India

Factory Address : EL-27/1, Electronic Zone, TTC Industrial Area, MIDC, Mahape, Navi Mumbai - 400 710, INDIA.

Tel. No. : +91-22-28476443 / 1882

Fax No.: +91-22-28471733 | Toll free: 1800 227 353 Website: www.selec.com | Email: sales@selec.com

Doc. name : OP INST 900CPR-1-BL-U RoHS OP442-V01 (Page 4 of 4)_