



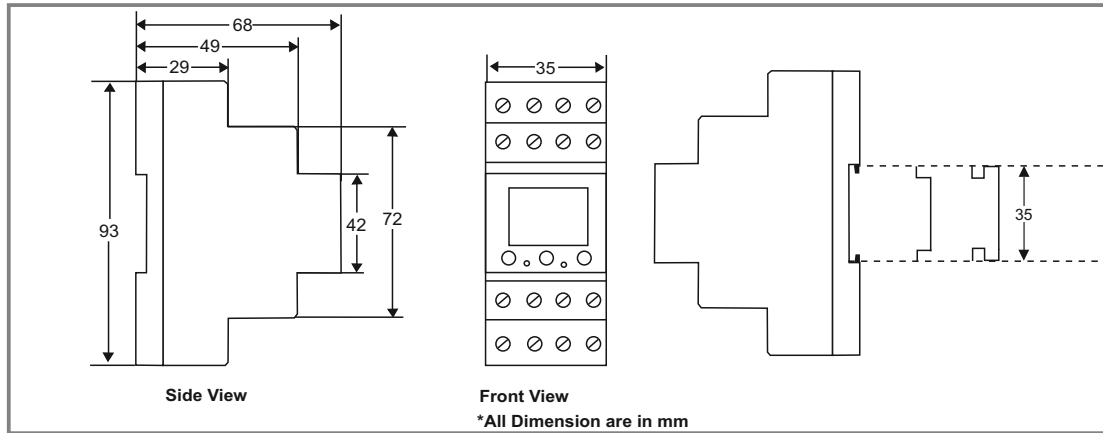
VERITEK

LCD Voltage Relay



VIPS-VFT-LD

MECHANICAL DIMENSION



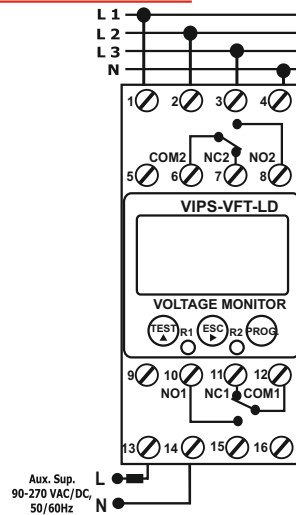
FEATURES

- Autoranging voltage display
- User settable trip level and time delay
- Din rail mounting
- Password protection
- Two Relays Output
- Auto / Manual Reset
- Protection under voltage, over voltage,
- Under frequency, over frequency, phase loss
- phase reversal and voltage asymmetry

PARAMETER DISPLAYED

- V L-N (Individual / Average),
- V L-L (Individual)
- Frequency
- Phase Asymmetry (L-L Individual)

CONNECTION DETAILS



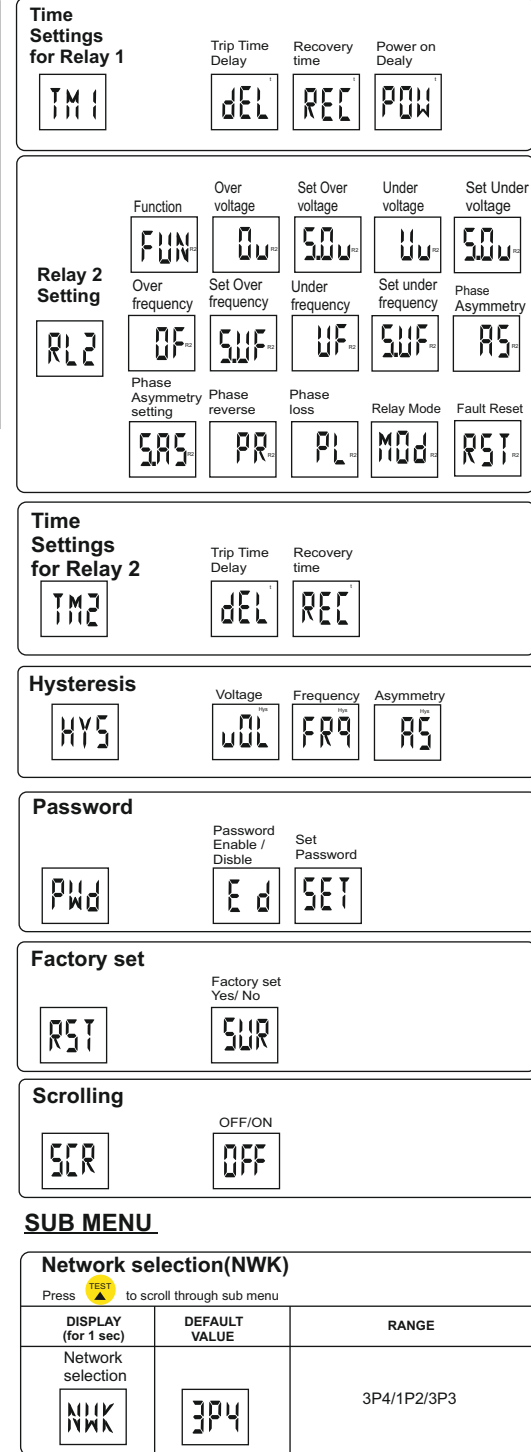
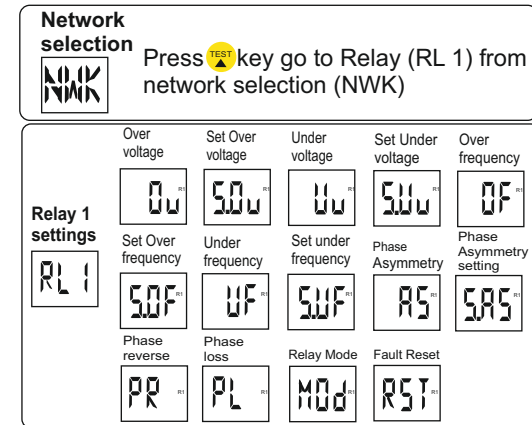
SPECIFICATION

- System** : 3P4W / 1P2W / 3P3W
- Aux. Supply** : 90-270V AC/DC 50/60 Hz
- Burden on Supply** : < 3 VA
- Display** : LCD (Displays Voltage (L-L/L-N), Frequency & Voltage Asymmetry)
- Set Point** : UV, OV, UF, OF, Hys, Voltage Asymmetry
- Accuracy** : $\pm 0.5\%$ of set point, ± 2 counts
- Relay Contacts** : 2 Potential Free Contact (NO, C, NC), (Energise or De-Energise on trip programmable)
- Contact Rating** : 5 Amps / 230 VAC/ 28 VDC
- Temperature** : Operating : - 10°C to 55°C
Storage : - 20°C to + 75°C
- Humidity** : < 95% RH (non condensing)
- Dimension** : 93x35x68 mm (L x B x H)
- Mounting** : Din Rail mounting
- Weight** : 200 gms
- Operating Range** : 160V-300V (3P4W & 1P2W); 280V- 520V (3P3W)

CONFIGURATION MENU

Press (PROG) for programming mode
password is 200 to enter or
exit configuration menu

MAIN MENU



TEST CERTIFICATE

Type : **LCD Voltage Relay (VIPS-VFT LD)**

Accuracy : Class 0.5%
0.1% of FS for Hz

Accuracy Test :

VOLTAGE		FREQUENCY
10%	100%	100%
+/- 0.5%	+/- 0.5%	+/- 0.1%
OK	OK	OK

Note :

A) For Digital Readouts the error is Computed in Counts.

- Class 1.0 = $\pm 1\%$ of Full Scale ± 1 Count
- Class 0.5 = $\pm 0.5\%$ of Full Scale ± 1 Count

Tested By : **Mr. Devendra chaurasiya**

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Relay 1 (RL1) Settings		
Press  PROG. to enter sub menu from menu Press  to scroll through sub menu		
DISPLAY (for 1 sec)	DEFAULT VALUE	RANGE
Over voltage 		ON/ OFF This option will be prompted only when OV option is made ON
Set Over voltage 		282-520V(Default:498) 3P3W System 162-300V(Default:288) 3P4W System
Under voltage 		ON/ OFF This option will be prompted only when UV option is made ON
Set Under voltage 		280-518V (Default:332) 3P3W System 160-298V (Default:192) 3P4W System
Over frequency 		ON/ OFF This option will be prompted only when OF option is made ON
Set Over frequency 		47.0-65.0Hz
Under frequency 		ON/ OFF This option will be prompted only when UF option is made ON
Set under frequency 		45.0-63.0Hz
Asymmetry 		ON/ OFF This option will be prompted only when AS option is made ON
Phase Asymmetry setting 		5.0-50%
Phase reverse 		ON/ OFF
Phase Failure 		ON/ OFF
Relay Mode 		ON/ OFF ON: Relay Energised at Power ON OFF: Relay De-energised at Power ON
Reset 		MAN/AUT Fault Reset Manual / Auto

Time Setting for Relay 1 (TM1)		
Press  PROG. to enter sub menu from menu Press  to scroll through sub menu		
Trip time Delay 		0.0-99.9s
Recovery Time 		0.0-99.9s
Power ON delay 		0.0-99.9s

Relay 2 (RL2)		
Press  PROG. to enter sub menu from menu Press  to scroll through sub menu		
Relay 		PRE/RL1 If RL 1 is selected, all the settings same as RL 1 & TM1 -will be automatically set for RL2 and no other parameter of RL 2 & TM 2 will be prompted
Over voltage 		ON/ OFF This option will be prompted only when OV option is made ON
Set Over voltage 		282-520V(Default:498) 3P3W System 162-300V(Default:288) 3P4W System
Under voltage 		ON/ OFF This option will be prompted only when UV option is made ON
Set Under voltage 		280-518V(Default:332) 3P3W System 160-298V(Default:192) 3P4W System
Over frequency 		ON/ OFF This option will be prompted only when OF option is made ON
Set Over frequency 		47.0- 65.0Hz
Under frequency 		ON/ OFF This option will be prompted only when UF option is made ON
Set under frequency 		45.0- 63.0Hz
Asymmetry 		ON/ OFF This option will be prompted only when AS option is made ON

Phase Asymmetry setting 		5.0-50%
Phase reverse 		ON/ OFF
Phase Failure 		ON/ OFF
Power on Delay 		ON/ OFF ON: Relay Energised at Power ON OFF: Relay De-energised at Power ON
Reset 		Manual / Auto

Time Setting for Relay 2 (TM2)		
Press  PROG. to enter sub menu from menu Press  to scroll through sub menu		
Trip time Delay 		0.0-99.9s
Recovery Time 		0.0-99.9s

Hysteresis (HYS)		
Press  PROG. enter sub menu from menu Press  to scroll through sub menu		
Hysteresis for voltage 		1.0- 95.0V
Hysteresis for Frequency 		0.2-2Hz
Hysteresis for Asymmetry 		02.0-20%

Password (PW)		
Press  PROG. to enter sub menu from menu Press  to scroll through sub menu		
Password 		ENB/DIS Enable/ Disable password protection option
Set Password 		000-999 Will be prompted only when Password option is enabled
NOTE: PWD option will be asked when the user enter the con?g. Menu if PWD option is enabled in the con?g. Menu and the user has to enter the password which he has set the S.PW (Set password) option.		

Factory set (RST)		
Press  PROG. to enter sub menu from menu Press  to scroll through sub menu		
Factory Reset 		SURE Factory Reset
Scrolling (SCR)		
Press  PROG. to enter sub menu from menu Press  to scroll through sub menu		
		ON/ OFF

PARAMETER	SYMBOL
Average Voltage	L1 L2 L3
Voltage (L1- phase)	L1
Voltage (L2- phase)	L2
Voltage (L3- phase)	L3
Voltage (L1-L2 phase)	L1 L2
Voltage (L2-L3 phase)	L2 L3
Voltage (L1-L3 phase)	L1 L3
Frequency	Hz
Voltage Asymmetry (L1-L2 phase)	L1 L2 As%
Voltage Asymmetry (L2-L3 phase)	L2 L3 As%
Voltage Asymmetry (L3-L1 phase)	L1 L3 As%

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 instruction 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 connection. Conform that all connection are correct.

CAUTION :



- 1) To ensure the safe operation of unit, check the wiring and connections.

The Documents are subject to change without noti?cation