

EARTH LEAKAGE RELAY (LCD)



VIPS 98L

FEATURES

- (1) Leakage Current Display (Auto Ranging)
- (2) User Settable Trip Level and Time Delay
- (3) Password Protection
- (4) Bar graph display in percentage of set value
- (5) Two Relays
- (6) CBCT Open Circuit Detection
- (7) Auto / Manual Reset User Programmable
- (8) Power ON Delay User Programmable
- (9) User Programmable Auto Reset Time in case of Auto Reset Mode

APPLICATION

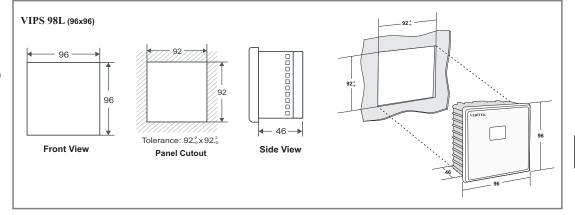
Generator Control Panel
Distribution Control Panel
Protection Control Panel

VERITEK ENGINEERING PVT. LTD.

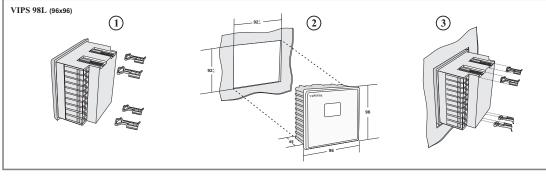
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MECHANICAL DIMENSION



MOUNTING ARRANGEMENT

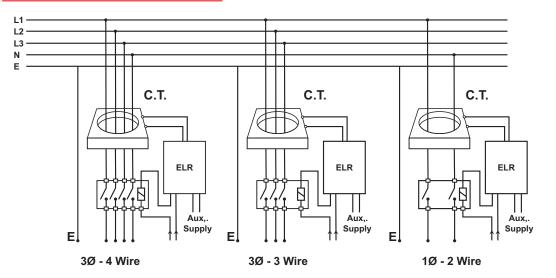


1) Remove the mounting clamps

2) Gently slide the Meter through the cut-out.

3) Put the mounting clamps back in the Meter.

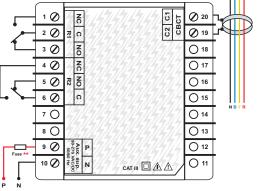
CONNECTION DETAILS (ONLY FOR CBCT)



CONNECTION DETAILS

Electrical Wiring / Connection Diagram

VIPS 98L (1 Phase 2 Wire)



SPECIFICATION

Sensing : Through CBCT

35/70/120/210mm ID (any other circular &

rectangular size on request)

Aux. Supply : 90 - 270 VAC / DC, 50/60Hz

Burden on Supply: < 3 VA

Display : LCD display (actual value of

leakage current)

Delay : 0(<25mS for Fault current>5xlth)

to 10 sec.

Set Point : 10mA up to 30 Amps

Accuracy : \pm 5% of set point, \pm 2 counts

Relay Contacts : 2 Potential Free Contact (NO, C &

NC), (energise or de-energise on trip

programmable)

Contact Rating : 6 Amps / 230 VAC / 28 VAC

Temperature : Operating : - 10°C to 55°C

Storage: - 20°C to + 75°C

Humidity : < 95% RH (non condensing)

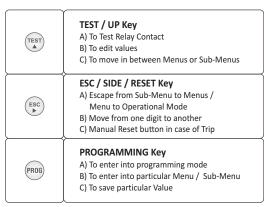
Dimension : 96 x 96 x 48 mm (L x W x D)

Mounting: Flush Mounting with side clamps

Weight : 250 gm

KEYPAD SETUP

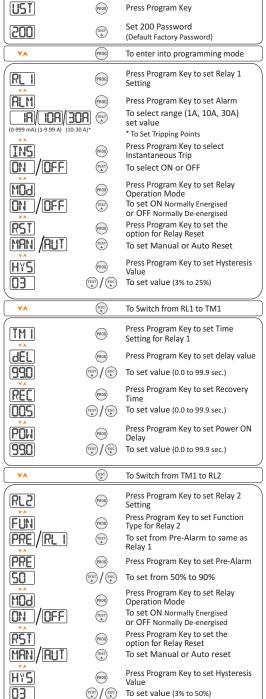
Keys Description

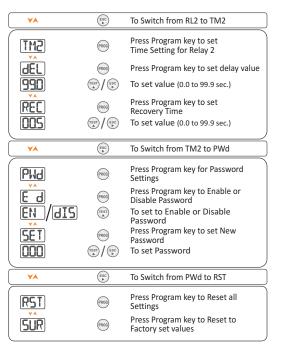


MENU / SUB-MENU DESCRIPTION

MENUS	SUB-MENUS
RL I	FLM To set Alarm
Setting for relay 1	INS To select Instantaneous Trip
	To change Relay Operation Mode Normally Energised(NC) or De-energised(NO)
	To change option for Relay Auto /
	Manual Reset
	HY5 To set Hysterises Value
TM I	dEL To set Delay Value
Setting for Time	To set Recovery Time for Auto Reset Mode
delay of relay 1	To set Power ON Delay
RL2	To set function type for Relay 2
Setting for relay 2	To set Pre-Alarm Value
	To change Relay Operation Mode Normally Energised(NC) or De-energised(NO)
	To change option for Relay Auto / Manual Reset
	HY5 To set Hysterises Value
	To set Delay Value
Setting for Time	To set Recovery Time for Auto
delay of relay 2	Reset Mode
PWd	To set Enable / Disable Password
Setting for Password	SET To set New Password
RST	Reset all settings

PROGRAMMING





INS: When INS ON is selected the delay will become zero (Irrespective of set delay) in case leakage current is x5 times of set value

FUN: In this setting the relay 2 can either be configured same as relay 1 or as PRE alarm. When FUN is set as RL1 then all setting of RL1 will be automatically copied to relay 2 & the system will be have as 2C/O relay.

PRINCIPLE OF OPERATION

The unit employs a CBCT (Core Balance Current Transformer) to sense the Leakage Current. In a healthy system the Vector sum of the currents flowing in the 3 Phases is Zero. But in case of an Earth Fault / Leakage the vector sum is not Zero & a resultant current begins to flow. This is sensed and converted into an analog Voltage signal which is compared with a preset reference value. Incase of 3 Phase 4 Wire system Neutral also has to be passed through the CBCT.

CORE BALANCE CURRENT TRANSFORMER (CBCT)



SIZES AVAILABLE

VIPS CBCT 35, 70, 120, 210, 310 mm ID

* Note: Any other ID / rectangular CBCT available on request

A 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.

A CAUTION:









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

TEST CERTIFICATE

Type: EARTH LEAKAGE RELAY (VIPS 98L)

Nominal Current IN: 10mA to 30A

Accuracy: Class 1

Aux.Supply 90 / 270V AC/DC, 50/60Hz

Range: 10mA to 30A

CBCT DIA:

Accuracy Test:

Tripping Observed Between 50-90% of set value / same as trip relay

Found OK

Note:

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

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

Tested By:

Date :