



Device Introduction

Shiva Amvaj Super Volt Ammeter 71 is a device to measure and display linear, phase and three-phase voltages and each 3 phase currents of R, S and T equipped with an adjustable CT. This device also has a maximum voltage and current recording system (Maximeter).

MODEL: VAB-6000A
CODE: 22B1
WEIGHT: 240 gr
(72x86x60) mm
IP 30



SCAN QR TO VIEW THE PRODUCT

①

Features

- Display of
 - Phase voltages(R, S, T) relative to the neutral and linear voltages(RS, RT, ST)
 - Phase currents (R, S, T)
 - CT over current warning
 - Phase frequency of R
- Maximum Voltage and current display and record
- Option
 - Fixed/rotational voltage current and frequency display
 - Adjust and display CT and to calibrate each one separately
- Display each Parameter with respective indicators
- Data backup in case of power supply failure

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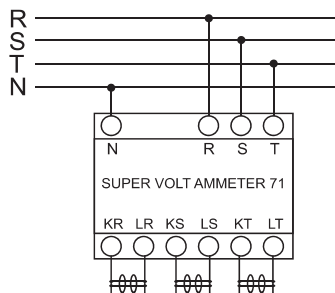
Technical specifications

- Input/supply voltage : 300-500 VAC / 3PH-N / 50-60HZ
- Accuracy
 - Voltage : 1V
 - Current : 0.5 ± 1 digit
 - Frequency : 0.1Hz
- Standard adjustable CTs on device : 5/5-6000/5A
- CT adjustment time : for 5 minutes after power connection
- operating condition
 - Temperature : $-20^{\circ}\text{C} \dots +65^{\circ}\text{C}$
 - Humidity : 70%

Installation Instruction

Connect R, S, T inputs to related phases in three-phase grid and N terminal to grid's null. Then connect CT outputs to terminals (KT,LT)(KS,LS)(KR,LR) for each phase if using Ampere meter.

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Device Operation

By connecting input power to device, upper indicator displays phase and linear voltages of grid sequentially with a 3 seconds delay time. Lower indicator displays R, S, T phase currents.

It is possible to fix a parameter on display screen in order to trace a parameter changes easily whenever you need.

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So press V button once. voltage indicator shows **HLd** and keeps the voltage which is being displayed fixed. No other parameters are displayed.

By re-pressing V button voltage indicator shows **CL** message, exits lock mode and displays phase and linear voltages sequentially. This operation is also executable for current parameters, but this time I button must be pressed to lock or unlock the desired current.

Maximum values observation

By pressing $\leftarrow$ & ∇ button, R, S and T indicator of voltage and current section starts blinking and maximum voltage and current values recorded are visible on blinking indicators. In this situation you can observe other recorded maximum values of current and voltage using V and I button.

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Erasing Maximum voltage and current

When observing maximum voltage and current (pressing $\leftarrow$ & ∇ button and blinking indicators simultaneously), by pressing V or I button consecutively for 5 seconds after device count down, maximum voltage and current will be erased.

CT adjustment : By pressing ∇ and $\uparrow$ button, previous adjusted value for CT is shown **CE** blinking. Now you can adjust intended CT value using $\uparrow$ and ∇ buttons. To adjust CT values of excessive range of 800A (from 1000A to 6000A), after displaying 800 by pressing $\uparrow$ a point beside lower indicator will be turned on which shows 1000 coefficient. For example 1000 and 1500 values will be displayed 1.00 and 1.50 respectively.

After CT range adjustment, the CT value will be confirmed by pressing $\leftarrow$ button. If phrase VAR is selected during CT adjustment, it will be possible to specialize a separate CT coefficient for each phase. by pressing $\leftarrow$ button S, R and T coefficient will be selectable respectively.

Then you can select **CE** which define CT error percentage of phase R that can be variable from 95% to 105% and by pressing $\leftarrow$ button S and T error coefficients are selectable and variable.

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Note1: to adjust CT after input power connection, you have 5 minutes time to enter CT value. If you didn't succeed to set CT after 5 minutes you can disconnect input power then connect it again. On this occasion you have another 5 minutes to set CT. Adding this section is on the purpose that user would not enter CT programming during device operation.

Note 2: If current exceeds authorized CT value, device shows **our** message on the related indicator. In this situation CT must be replaced according to intended crossing current or lower current must be crossed of CT.

Frequency display: by pressing $\leftarrow$ Hz button frequency will be displayed instead current.

Name	Normal Device Operation	Maximum Display Mode	CT Adjustment Mode
$\frac{V}{\nabla}$	Make intended voltage locked or circulated	display other maximum	Increase CT adjusted
$\frac{I}{\nabla}$	Make intended current locked or circulated	display other maximum voltage current	decrease CT adjusted value
$\leftarrow$ Hz	Frequency or current display	Return to voltage-current display	Confirm adjusted CT value and exit
$\frac{V}{\nabla} + \frac{I}{\nabla}$	Entering to CT adjustment	_____	_____
$\frac{V}{\nabla} + \leftarrow$	Entering to MAX display	_____	_____

⑦



Respecting the customer is our duty

3 year no question asked guarantee under these conditions;

- 1-at most it should be within 3 years from the date printed on the label of the product
- 2-the label on the product should be safe and sound

Shiva Amvaj products in accordance with international standards and with a 3 year no question asked guarantee are presented

ISO 9001-2015



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