

Technology of Measurement... **defined**

ebrit Digital

Basic Panel Meters



- Ammeter • Voltmeter
- VAF Meter



HPL brings to you a wide range of digital panel meters which measure Trivector Energy as well as the basic electrical parameters using state-of-the-art technology.



METERING



Unique Features

- Accuracy maintained throughout the range.
- Separate coloured LED indication for R Y B phases.
- PT programming range – 110 to 999KV/110 to 750V.
- CT programming range– 1 to 9999A/1 to 5A.
- Direct measurement upto 750V without external PT.
- Option to use Three phase meters as single phase without affecting accuracy.
- Diagnostic feature to check connection & phase sequence on display.
- Favourite display field selectable option to view only essential parameters on display.
- LED indication for reverse current, over voltage, over current, abnormal frequency (Refer parameter list).
- Push button based site programmable CT/PT ratio.
- Field selectable network (star & delta) option.

Technical Specification:

Electrical Specification

Auxiliary Power Supply	80 – 300V AC
Auxiliary burden	< 1VA
Voltage circuit burden	< 0.5 VA
Current circuit burden	< 0.5 VA
Measuring Range	
Voltage (Direct measurement)	0 – 750 V AC
Current (Direct measurement)	0 – 7.5 A AC
Resolution	
Voltage (Direct measurement)	0.1 V
Current (Direct measurement)	0.001 A

Display

Display	14 mm seven segment
LED Display	
Display Range	0 to 9999
Decimal	Auto adjust

Mechanical

Enclosure Material	Engineering Plastic
Bezel Size	96x96mm
Panel Cutout	92x92mm
Product	96x96x50mm
Weight	<250g

Environmental

Operational temp.	0 to 60 0C
Storage temp.	-20 to 70 0C
Relative humidity	0 to 95%

Safety

IP Protection	IP 54 on front plate
Device safety	As per IEC 61010

Ordering Information

Model		Class 0.5
Name	Number	
V1	Ebrit 101	PMEBTN5LEDAT-V1
V3	Ebrit 102	PMEBTN5LEDAT-V3
A1	Ebrit 103	PMEBTN5LEDAT-A1
A3	Ebrit 104	PMEBTN5LEDAT-A3
VAF	Ebrit 111	PMEBTN5LEDAT-VAF
VAF+	Ebrit 112	PMEBTN5LEDAT-VAFP





Parameter List

Display Parameters	Ebrit-101 (V1)	Ebrit-102(V3)		Ebrit-103 (A1)	Ebrit-104 (A3)	Ebrit-111(VAF)		Ebrit-112(VAF+)	
		STAR	DELTA			STAR	DELTA	STAR	DELTA
L1 Phase Voltage	✓	✓				✓		✓	
L2 Phase Voltage		✓				✓		✓	
L3 Phase Voltage		✓				✓		✓	
System Voltage		✓				✓		✓	
L1-2 Line Voltage		✓	✓			✓	✓	✓	✓
L2-3 Line Voltage		✓	✓			✓	✓	✓	✓
L3-1 Line Voltage		✓				✓		✓	
L1 Phase Current				✓	✓	✓	✓	✓	✓
L2 Phase Current					✓	✓	✓	✓	✓
L3 Phase Current					✓	✓	✓	✓	✓
System Current					✓	✓		✓	
Frequency						✓	✓	✓	✓
PT Ratio	✓	✓	✓			✓	✓	✓	✓
CT Ratio				✓	✓	✓	✓	✓	✓
Network Type		✓	✓			✓	✓	✓	✓
Scroll Time (in Sec)		✓	✓		✓	✓	✓	✓	✓
Connection Check		✓	✓		✓			✓	✓
Phase Sequence		✓	✓					✓	✓
Quadrant Info								✓	✓
Reverse Current				✓	✓	✓	✓	✓	✓
Over voltage	✓	✓	✓			✓	✓	✓	✓
Over current >7.5A				✓	✓	✓	✓	✓	✓
Abnormal frequency <45Hz or >65Hz						✓	✓	✓	✓



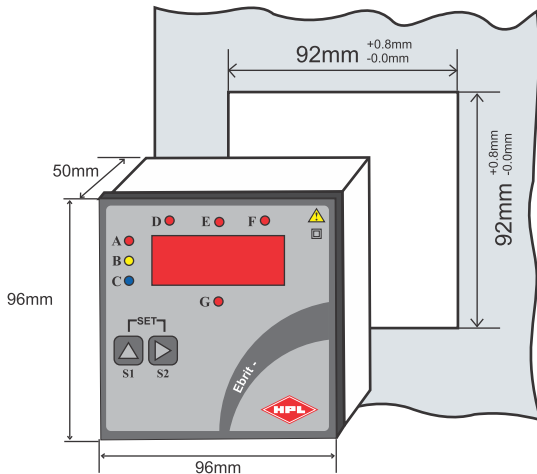
A1 Ebrit - 104



V1 Ebrit - 101

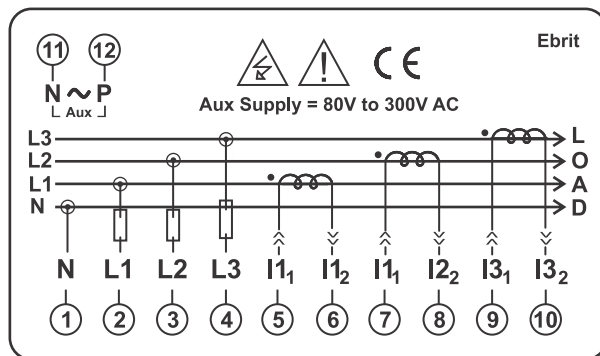
Meter Cutout Details

The panel meter is to be firmly secured using the 2 fixing clips. Use 0.5 to 2.5 mm cable for voltage terminals. Use 3 to 6 mm cable for current terminals.



Wiring Diagram

Following Standard Wiring diagram can be referred for both Single Phase as well as Three Phase panel meters.



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