

## 2310 / 2330 VAF Indicator

(1-Phase/ 3-Phase - Voltage/  
Current/ Frequency)

2310 – Single Line 4 digits Display  
2330 – Three Line 4 digits Display



True RMS



Maximum



Aux. Supply



Auto Scroll/  
Favourite Page



Auto Scaling

Available In Class 1.0 Accuracy

Masibus VAF 2310 & 2330 are an easy-to-use, cost effective electrical VAF Indicator that offers all the basic measurement capabilities required for monitoring an electrical installation. It offers Class 1.0 accuracy. This Indicator measures accurately all three parameters Voltage, Current and Frequency.

VAF Meter is available in flush panel mount enclosure having front panel keys for easy setup.

The CT/ PT ratio and PT secondary is site selectable, making it possible to use the meter in various types of three phase & single phase installations.

It is having high-visibility Large LED display of 0.56" [14 mm], fully visible under bright sunlight.

VAF Meter has password protection for parameters setup

### Features

- Accuracy class 1.0
- Compact DIN case flush panel mounting
- Ultra bright 4+4+4 digit LED display with auto scaling capability
- Field programmable CT/ PT Ratio
- True RMS, More than 100 Samples/cycle Microcontroller based calculation
- Universal Power Supply
- Auto scrolling feature for easy readability for all parameters even in Single line display as well.
- LED indicator for each parameter
- RPM [Available in 3 line 3-Phase VAF]
- ON Hour/ Run Hour [Available in 3 line 3-Phase VAF]
- Max Voltage and Current Indicator

### Applications

- Test Benches
- Renewable Energy
- Lab Equipment
- Original Equipment Manufacturers (OEMs)
- Electrical Panels

# TECHNICAL SPECIFICATIONS

Input		Accuracy	
<b>System Type</b>		Voltage	± 0.5% of F.S. ± 1 Digit (20 to 120% of Nominal value)
Three phase four wire (3P4W)		Current	± 0.5% of F.S. ± 1 Digit (5 to 120% of Nominal value)
Three phase three wire (3P3W)		Frequency	+/- 0.5% of Reading (>40V Input)
Single phase two wire (1P2W)		<b>Auxiliary Power Supply</b>	
<b>Measured Parameters</b>		Power Supply	90-270VAC, 50/ 60Hz or 100-300VDC
Voltage	L1-N, L2-N, L3-N, Max.Value L1-L2, L2-L3, L3-L1, Max.Value	Burden	< 3VA
Current	All Phase Current, Max. Value	<b>Environmental</b>	
Frequency	System Frequency	Operating temperature	0 to 55 °C
RPM	Calculation based RPM [Available in VAF, 3 Phase 3 line Model Only]	Storage temperature	-10 to 70°C
Hours	ON Hour, Run Hour [Available in VAF, 3 Phase 3 line Model Only]	Relative Humidity	30-95% RH non-condensing
<b>Voltage</b>		<b>Isolation (Withstanding voltage)</b>	
Direct Voltage	0 to 550V L-N	Between Field Input [Voltage & Current] terminals and Auxiliary Power Supply terminal At least 1500 V AC for 1 minute	
Measurement Method	True RMS	<b>Insulation resistance:</b> 20MΩ or more at 500 V DC between Field Input [Voltage & Current] terminals and Auxiliary Power Supply terminal	
Burden	0.5VA per phase	<b>Physical</b>	
Wire gauge	16 AWG	Mounting Type	Panel mount
PT Ratio	1 to 9999 Programmable	Size (in mm)	100 (H) x 100 (W) x 55 (D)
Overload	1.2 x Nominal (Continuous)	Front Bezel (in mm)	100 (H) x 100 (W)
<b>Current</b>		Panel Cutout (in mm)	92 (H) x 92 (W)
Direct Current	50mA to 6A	Depth Behind Panel	50 mm
Secondary Current	1A to 5A	Material	ABS
Measurement Method	True RMS	Accessory	2 Panel mount clamps
Accuracy	Class 1.0	Weight	250 gms
Burden	0.25VA per phase	Enclosure Protection Rating	IP20
Wire gauge	16 AWG		
CT Ratio	1 to 9999 Programmable		
Overload	1.2 x Nominal (Continuous)		
<b>Frequency</b>	45 to 65Hz		
<b>Display</b>			
0.56" [14mm] height Seven Segment, RED color			
4 digit, Three line display(2330)			
4 digit, Single line display(2310)			
<b>RPM</b>			
Number of poles can be configured depending upon application requirement. Range: 1 to 100 poles [Configurable]			
<b>ON/ Run Hour</b>			
On Hour : Total Hours for unit ON condition			
Run Hour : Total Hours for unit with load condition			
Range: Max. 999999 Hours 59 Minutes			
Resolution: 1 Minute			

## ORDERING CODE

Model	Display	Phase	Parameter
23	XX	X	X
	10	1	0 F (Freq.) <sup>2</sup>
	30	3	1 V (Volt)
			2 A (Amp)
			3 VAF

Note :

- 1-phase Voltage or 1-phase Current are available in Single Line Display Only
- Using the meter to measure only Frequency Parameter is available on 1-phase & Single Line Display Only  
Max. Value available in three line display only