masibus

2310 / 2330
VAF Indicator

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

2310 – Single Line 4 digits Display

2330 – Three Line 4 digits Display

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]
- Optional Relay output available

Applications

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

Technical Specifications

Input
System Type
Three phase four wire (3P4W)
Three phase three wire (3P3W)
Single phase two wire (1P2W)

Measured Parameters	
Voltage	L1-N, L2-N, L3-N L1-L2, L2-L3, L3-L1
Current	All Phases Current
Frequency	System Frequency
RPM	Calculation based RPM *[Available in VAF, 3 Phase 3 line Model Only]*
Hours	ON Hour, Run Hour *[Available in VAF, 3 Phase 3 line Model Only]*

Voltage	
Direct Voltage	0 to 550V L-N
Measurement Method	True RMS
Burden	0.5VA per phase
Wire gauge	16 AWG
PT Ratio	1 to 9999 Programmable
Overload	1.2 x Nominal (Continuous)

Current	
Secondary Current	1A /5A(Factory Selectable)
Measurement Method	True RMS
Accuracy	Class 1.0
Burden	0.25VA per phase[for 5A]
Wire gauge	16 AWG
CT Ratio	1 to 9999 Programmable
Overload	1.2 x Nominal (Continuous)

Frequency	45 to 65Hz
Display	0.56" [14mm] height Seven Segment, RED color 4 digit, Three line display(2330) 4 digit, Single line display(2310)
RPM	Number of poles can be configured depending upon application requirement.
Range	1 to 100 poles [Configurable]
ON Hour **Run Hour**	Total Hours for unit ON condition Total Hours for unit with load condition
Range	Max. 999999 Hours 59 Minutes Resolution: 1 Minute

Accuracy	
Voltage	± 0.5% of F.S. ± 1 Digit (20 to 120% of Nominal value)
Current	± 0.3% of F.S. ± 1 Digit (1 to 120% of Nominal value)
Frequency	+/- 0.1Hz ± 1 Digit (> 40V i/p)

Relay Output (Optional)	
No of Relays	1 No
Relay Rating	AC rating : 250V, 2A DC rating : ± 30V, 2A

Auxiliary Power Supply	
Power Supply	90-270VAC, 50/60Hz or 100-300VDC
Burden	< 3VA

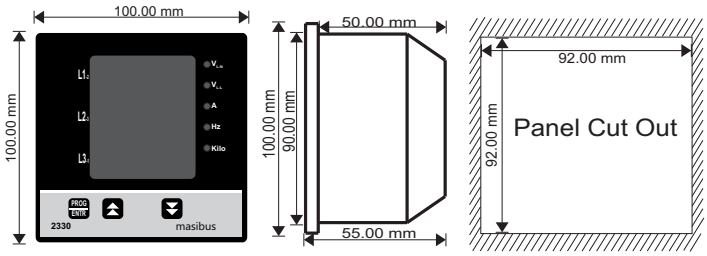
Environmental	
Working temperature	0 to 55 °C
Storage temperature	-10 to 70°C
Relative Humidity	30-95% RH non-condensing

Isolation (Withstanding voltage)

Between Field Input [Voltage & Current] terminals and Auxiliary Power Supply terminal
At least 1500 V AC for 1 minute

Insulation resistance: 20MΩ or more at 500 V DC between Field Input [Voltage & Current] terminals and Auxiliary Power Supply terminal

Physical	
Mounting Type	Panel mount
Size (in mm)	100 (H) x 100 (W) x 55 (D)
Front Bezel (in mm)	100 (H) x 100 (W)
Panel Cutout (in mm)	92 (H) x 92 (W)
Depth Behind Panel	50 mm
Material	ABS
Accessory	2 Panel mount clamps
Weight	250 gms
Enclosure Protection Rating	IP20



Ordering code

Model	Display		Phase		Parameter		CT Input[3]		Relay Output	
23	XX		X		X		X		X	
	10	Single line	1	1-Phase[1]	0	F (Freq.)[2]	N	None	N	None
	30	Three line	3	3-Phase	1	V (Volt)	1	1 Amps	Y	Yes
					2	A (Amp)	5	5 Amps		
					3	VAF				

Note:-

[1] 1-phase Voltage or 1-phase Current are available in Single Line Display Only
[2] Using the meter to measure only Frequency Parameter is available on 1-phase & Single Line Display Only
[3] CT input is applicable while selecting A or VAF as a display

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