



BLIND MEASURING MODULE - AC (BMM)

★ This picture is only indicative to depict construction. Actual number of terminals and dimensions may change.

BMM (Blind Measuring Module) is multi functional unit which supports only AC 3P4W installation. BMM takes three voltage inputs & three current inputs for measurement. BMM measures phase wise Voltage, Amps, PF, Power as well as System Power, Energy, Frequency and a host of other parameters. For Demand calculation, BMM has fixed 30 minute window, based on Real Time Clock; for KW as well as KVA. BMM provides one isolated RS485 port with Modbus-RTU protocol to communicate with external world. This unit can operate from AC auxillary supply or -48V DC telecom power supply. The type of auxillary supply needed has to be mentioned in the PO.

PARAMETER		
TYPE	NAME	STATISTICS
INPUT	Supply	Three Phase and Neutral of 3P4W system
	Voltage	Direct Voltage Input : Up to 300V L-N PT Ratio : 1 Burden : 1 VA
	Current	Secondary Current Input : 5A or 1A(Site Selectable) CT Ratio : Site Selectable Range of Reading : 5-5000A for FA Burden : <1.0VA Overload : 5A CT = 6A RMS Continuous 1A CT = 1.2A RMS Continuous
	Power Supply	Auxiliary Supply: 90 - 270 VAC (P-N), 50-60 Hz. (Power Up from 3 Phase Voltage Input)
OUTPUT	Relay	Switching Voltage : Max. 250 VAC Switching Power : Max. 1000W Expected Mechanical Life : >10 X 10 ⁶ switching operations Expected Electrical Life : > 4 X 10 ⁶ switching operations @(Load=200VA, Cosφ=0.5)
MEASUREMENT	True RMS Basic Parameters	Voltage (Volts L-N: VRN, VYN, VBN) Accuracy : 0.5% of Reading
		Current (Amps IR, IY, IB) CT Ratio : Site Selectable Accuracy : 0.25% of Reading
		Capacitor Current CT Ratio : Site Selectable Accuracy : 1.0% of Reading
		Line Frequency 45 to 65 Hz, Accuracy : 0.3% of Reading
	Power	Active Power (P) Accuracy: 1.0% of Reading (For IPFI>0.9)
		Reactive Power (Q) Accuracy: 1.5% of Reading (Between 0.5 Lag to 0.8 Lead)
		Apparent Power (S) Accuracy: 1.0% of Reading
		Power Factor Accuracy: 1.0% of Reading (IPFI≥0.5) Range of Reading: 0.05 to 1.00 Lag/Lead
	Energy	Total Active Energy (KWh) Accuracy: 1.0s as per IS13779 Range of Reading: 0 to 9999999.9
		Total Apparent Energy (KVAh) Accuracy: 1.0% of Reading Range of Reading: 0 to 9999999.9
		Total Reactive Energy (KVARh) (Lag & Lead) Accuracy: 1.5% of Reading Range of Reading: 0 to 9999999.9
	Power Quality	upto 15 th ODD Harmonics with THD for all Voltage
		upto 15 th ODD Harmonics with THD for all Current
	Misc.	Cap. Bank KVAR

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