

Pivot-type Fixed Meter 110mm Angle [JIS C 1102-2007, RoHS Compatible Products]

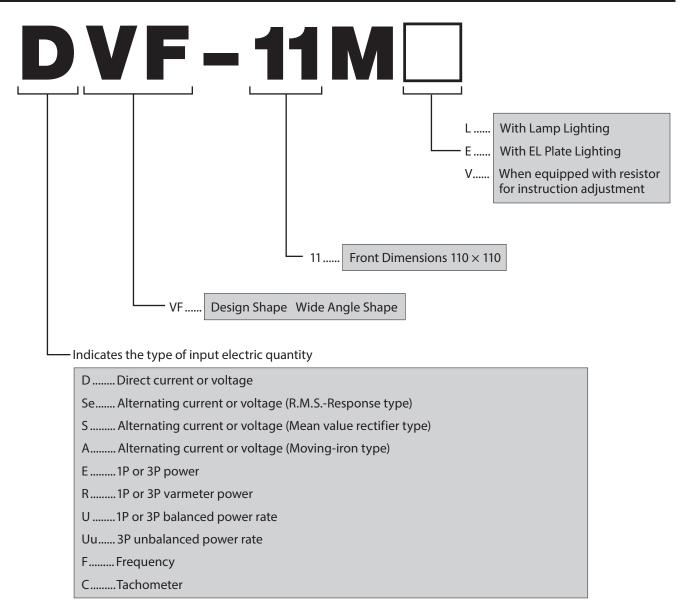
Wide Angle Meter





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About Model Names



SERIES

Details of Changes from Previous Product (UVF-11 Series)

- 1. Mounting screws at the four corners of the meter changed from M6 to M5 size.
- 2. Meter terminal screws changed as follows. Ammeter, voltmeter, frequency meter M6 screws → M4 screws Wattmeter, Varmeter, Power Factor Meter 1P, 3P3W: M4 screws \rightarrow M4 screws 3P4W : M3 screws → M4 screws
- 3. Scale characteristics of the electronic device type (M.R.S.-Response type) AC ammeter have been improved from non-linear wiring to linear wiring.

VF-1 1M Series List

Features

- 1. A long scale meter for indicating wide angles.
- 2. A stepped scale plate is used to remove any level difference between the scale and tip of the needle, resulting in accurate readings.
- 3. Meter that has a bright scale due to the wide cover lighting surface.
- 4. It is not affected by steel panels.
- 5. Can be manufactured with EL board (Electro-Luminescence Board) lighting.
- 6. Terminal cover is now equipped as standard.
- 7. It is now compatible with multi-setting set pointer models.

Applicable Standards: JIS C 1102-1, 2, 3, 4, 5, 9

Part Name		□VF-11M			Notes
		Model Name	Operating Principles	Accuracy Class	Page
Direct Current	Ammeter	DVF-11M	Permanent magnet Moving-coil type	1.5	5
	Voltmeter				6
	Reception Meter				5/6
Alternating Current	Ammeter	SVF-11M	Rectifier type	2.5	7
	Voltmeter				8
	Ammeter	SeVF–11M	Electronic device type	1.5	9
	Voltmeter				10
	Ammeter	AVF-11M	Moving-iron type	1.5	11
	Voltmeter				12
	Reception Meter	SVF–11M	Rectifier type	2.5	7/8
	1P Wattmeter	EVF-11M	Electronic device type	1.5	13
	3P Wattmeter				
	3P4W Wattmeter				
	1P Varmeter	RVF-11M	Electronic device type	1.5	13
	3P Varmeter				
	3P4W Varmeter				
	1P Power Factor Meter	UVF–11M	- Electronic device type	5.0	14
	3P Balanced Power Rate Meter				
	3P Unbalanced Power Factor Meter	UuVF–11M			
	3P4W Power Factor Meter				
	Frequency Meters	FVF–11M	Electronic device type	0.5	18

Production Standards

A Can be manufactured to 80×80 (mm) or 120×120 (mm) sizes. Please contact us for more details.

Model Name	□VF-11M		
Front Dimensions (Horizontal × Vertical) (mm)	110×110		
JIS Symbol (JISC1103)	KW3a		
Scale Length (mm)	170		
Blur Angle	237°		
Accuracy/Class	Refer to \Box VF-11 M Series List Table (Upper Table)		
Mounting Posture	Vertical (Other than vertical: Specification required, e.g. $\underline{/30^\circ}$)		
Recommended No. of Scale Divisions	Division 35 to division 75		
Pointer Shape	VF Standard Pointer (See Next page)		
Cover Material	Methacrylic Resin		
Cover Frame Color	●Black (Munsell symbol: N-1.5) ●Blue/green color according to specifications (Munsell symbol: 7.5BG 4/1.5)		
Deve Material	Body: ABS resin		
Base Material	Terminals: PBT resin		
Scale Plate	Aluminum plate with white coating (Scale lines and numbers are black)		

Between all circuits in a batch and outer casing ... More than 10 M Ω (500V m Between current circuit and voltage circuit ... More than 5M (at 500V mega)

Voltage Test

If the maximum usable circuit voltage of 600V is exceeded, (2E+1000) V (E: Maximum usable circuit voltage [V])

Between all measurement circuits in a batch and outer casing, and between current circuit and voltage circuit ... maximum usable circuit voltage up to 600V. AC3320V for 5 seconds: CAT III 600V displayed at the bottom right of the scale plate.



AC Ammeter (Electronic Device Type, R.M.S.-Response)

SERIES

Specifications

Measurement Range	SeVF-11M		Note	
Value	VA Consumption	Accessories	NOLE	
100 mA				
300 mA				
500 mA			Direct Measurement	
1 A			Direct measurement	
3 A	0.5VA	None		
5 A				
7.5 A			Use combined CT and	
l			5A (1A) meter	
10 kA			SA (TA) meter	
Weight	Approx. 0.55kg			

Model Name SeVF-11M

Remarks

Waveform Distortion

Electronic device type meters **indicate the root-mean-square value** without being influenced by waveform distortion. (However, the waveform distortion must be less than the "**third harmonic wave 20% of the**

fundamental wave" prescribed in JIS C1102-1 to 2, 9.)

Using CT

- 1. Use **combined CT and 5A (1A) meter** if 5A is exceeded.
- When circuit voltage of 600V is exceeded at 5A or below, use **combined CT and 5A (1A) meter** for insulation.

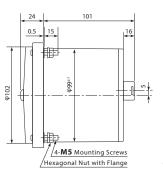
Extended Scale Meter

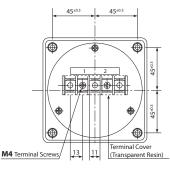
Meters attached with double, triple or 5-times extended scale to use for measuring the current flow of electric motor-class of starting current

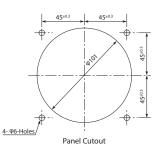
Outside Dimensions



SeVF-11M







Connection Diagram

For Direct Measurement

