

## Single Phase KWH Static Energy Meter

### Features :

- Accuracy class 1.0 as per IS:13779.
- Instantaneous Start.
- Low power consumption in comparison to conventional meter.
- Tamper proof design.
- No frequent adjustment / calibration required.
- An ISO-9001:2008 Company.



### Technical Particulars Of Single Phase KWH Static Energy Meter

Make	JUVAS
Applicable	1 Phase 2 Wire
Rating	2.5-10A / 5-20A / 5-30A / 10-40A
Accuracy Class	Class 1.0
Standard Reference Voltage (Vref)	240 V (Line to Neutral)
Rated Maximum Continuous Current (Imax)	400% Of Ib
Rated frequency	50 Hz
Power factor	0 Lag- Unity - 0 Lead
Voltage Variation Range	(+20% Vref) To (-30% Vref)
Current Variation Range	0.2% Of Ib To Imax
Frequency Variation Range	50Hz +/- 5%
Initial Start Up of the Meter	5 sec After rated Voltage Applied
Running with No Load	At 115% of rated Voltage no Pulse
Starting Current	0.2% of Basic Current at UPF
Meter Constant	3200 / 1600
Power Consumption :	
Voltage Circuit -	1.5 Watt - 10VA
Current Circuit -	4VA
General & Constructional Requirement :	
Meter Case -	Polycarbonate
Terminal -	Brass / Aluminium
Terminal Block -	Polycarbonate
DISPALY :	
LCD -	LCD With Non Backlight
Digit Size -	10X5 & 8X4 (Decimal Digit)
Segment For Display of Each Digits -	7
Resolution of Digits -	5+2
Test Output Device Provided For KWH	LED

### Features :

- Digital technology ensures reliability & accuracy.
- Internal Battery Backup for meter reading in the event of Power Outage.
- Anti-Tamper Features.
- Class 1.0 accuracy as per IS standards.
- Optical Communication Port For Downloading Of Energy Data Into CMRI.
- Auto Scroll Mode & Push Button Mode provided.
- Base And Cover Ultrasonically Welded.
- Tamper Proof Design.



### Technical Particulars Of Ac Single Phase Two Wire Electronic Kwh Meter [Multifunction / Digital]

Type	JVS-1M-1		
Standard Applicable	IS 13779/99		
Ratings Available	2.5-10A / 5-20A / 5-30A & 10-60A		
Accuracy Class	Class 1.0		
Rated Voltage	240 V (+20% To -30%)		
Rated Current	Basic Current (Ib) 10A, Maximum Current I(Max)60A		
Rated Frequency	50 Hz ( +/- 5%)		
Power Factor	0 Lag To Unity To 0 Lead		
Maximum / Minimum Ambient Temp..	55 Deg. Centigrade / -10 Deg. Centigrade		
Maximum Size Of Cable Which Can Be Connected To The Terminal	16 Sq. Mm		
Type Of Display	LCD With Backlight		
Operation Suitability	LCD Suitable For Operation Range 10 Deg. C To 55 Deg. C		
No. Of Digits	6 Complete Digit And One Small Decimal Digit (6+1)		
Type Of Push Button Arrangement	Push Button With Spring Action		
Reading On Power Off Condition	Able To Display The Parameter Under Power Off Condition Through Push Button.		
Type Of Arrangement Made To Display In Power Off Condition.	Lithium Ion Battery Having Min. 10 Years Self Life Provided.		
Whether Meter Is Provided With Any Port For Data Downloading.	The Meter Has Galvanically Isolated Optical Communication Port For Downloading Of Energy Data Into CMRI.		
Max. Demand Registration & Reset.	MD Registration For 30 Mins. And Reset At The Last Date Of The Month.		

### Type Of Material Used

- Base Material And Thickness- High Impact Strength, Non Aging, Non-Hygroscopic, Flame Retardant, High Grade Engineering Plastic Of Min 2.0 mm Thick (Same As Mention In the TS)
- Meter Base And Cover- Base And Cover Ultrasonically Welded.

### Auto Scroll Mode

(Each Parameter Shall Be On Meter Display For 10 To 12 Sec And Time Between Two Auto Cycles Shall Be 120 Sec)  
Auto Mode.(Display For 10 Sec.)

- LCD Test
- Real Time
- Serial No.
- Real Date
- Cumulative Active Energy(Kwh)
- Last Bill Active Forwarded Energy
- Instantaneous Load
- Last Month Demand Kw (MD) With Date And Time

### Push Button Mode

- LCD Test
- Meter Serial Number
- Real Time
- Date
- Instantaneous Voltage And Current
- Max Demand Kw For Current Month
- Supply Frequency
- Instantaneous PF

## Multifunction Three Phase Energy Meter

### Features :

- Digital technology ensures reliability & accuracy.
- Internal Battery Backup for meter reading in the event of Power Outage.
- Anti-Tamper Features.
- Class 1.0 accuracy as per IS standards
- Optical Communication Port For Downloading Of Energy Data Into CMRI.
- Auto Scroll Mode & Push Button Mode provided
- Base And Cover Ultrasonically Welded.
- Tamper Proof Design



### Technical Particulars Of Ac Three Phase Four Wire Electronic Kwh Meter [Multifunction / Digital]

Type	JVS-3M-1		
Standard Applicable	IS-13779 Latest		
Rated Voltage	3X240V +20% to -40%		
Ratings Available	10-40A / 10-60A		
Frequency	50HZ 5%		
Power Factor	0.5 Lag- Unity-0.866 Lead		
Minimum Starting Current in % of Base Current	0.4% of Ib		
Maximum continuous Current	600% of Ib (60Amp)		
Accuracy Class	Class 1.0		
Test Output for Calibration & Testing	RED colour LED with high intensity		
Auto Scroll Parameter	Cumulative Forwarded kWh		
Display in absence of Power with internal battery	Cumulative forwarded kWh		
Degree of protection against dust & water	IP 51		
Type Of Register :	Maximum Demand :		
► No. of Digits	5+1 after decimal	► MD Reset	24:00hrs for last day of the month
► Backlit	Provided	► Integration Period	30 minutes
Optical Port	► Interface type - IR TX / RX		
	► Communication Port - IEC1107		

Push Button Mode			
► LCD Test	► Present MD Kw	► Instant Voltage Y Phase	► Instant Load In Kw
► Meter Serial No. 123456	► Present MD Kw date	► Instant Current Y Phase	► Instant Frequency
► Real date in DD/MM/YY	► Present MD Kw time	► Instant Voltage B Phase	► High resolution display
► Real time in HH/MM/SS	► Instant Voltage R Phase	► Instant Current B Phase	► Last six month Cumulative kWh
► Cumulative Forwarded kWh	► Instant Current R Phase	► Instant Power Factor	► Last six month MD with date and time

Parameter automatically transfers to Auto scroll after 10 sec when push button not pressed continuously.

### Tamper Features

- Current reversal - Forward energy registration with "Rev" indication on LCD.
- Load connected to ear - Forward energy registration.
- External Magnetic Influence (Both A.C. & D.C. magnet for 0.2T) - As per CBIP-88 with latest amendments.

### Parameter downloadable from CMRI and print to BCS

- Meter Serial No.
- Instantaneous Downloading date & time of Meter RTC ,Instantaneous Parameter during Downloading Voltage, Current, Load in KW, PF, Frequency, MD in KW with date & time logging.
- Billing History of kWh for last six months.
- Billing History of MDKW for last six months.
- Load survey data of 60 days kWh .
- Events of last tamper occurrence & restoration at FIFO basis with date & time stamping (minimum 50 events required).



ISO 9001:2008  
8872

IS: 13779



JUVAS



JUVAS

## Three Phase KWH Static Energy Meter

### Features :

1. Accuracy class 1.0 as per IS:13779.
2. Poly Carbonate Enclosure.
3. LED's indicating presence of each phase.
4. Withstand high surge upto 8.5kV.
5. Loaded with Anti-tamper features.
6. Under current reversal condition accuracy is maintained.
7. Accurate reading even under rapid current fluctuation.



### Technical Particulars Of Three Phase KWH Static Energy Meter

Make	JUVAS
Applicable	3 Phase 4 Wire
Rating	10/40A & 10/60A
Accuracy Class	Class 1.0
Standard Reference Voltage (Vref)	240 V (Line to Neutral)
Rated Maximum Continuous Current (Imax)	400% Of Ib & 600% of Ib
Rated frequency	50 Hz
Power factor	0 Lag- Unity - 0 Lead
Voltage Variation Range	(+20% Vref) To (-30% Vref)
Current Variation Range	0.2% Of Ib To Imax
Frequency Variation Range	50Hz +/- 5%
Initial Start Up of the Meter	5 sec After rated Voltage Applied
Running with No Load	At 115% of rated Voltage no Pulse
Starting Current	0.2% of Basic Current at UPF
Meter Constant	1600
Power Consumption :	
Voltage Circuit (per phase) -	1.5 Watt - 10VA
Current Circuit (per phase) -	4VA
General & Constructional Requirement :	
Meter Case -	Polycarbonate
Terminal -	Brass / Aluminium
Terminal Block -	Polycarbonate
Protection Against Penetration of Dust and Water -	IP 51
DISPLAY :	
LCD -	LCD With Non Backlight
Digit Size -	10X5 & 8X4 (Decimal Digit)
Segment For Display of Each Digits -	7
No. of Digits -	7
Resolution of Digits -	5+2
Test Output Device Provided For KWH	LED



## Polycarbonate Meter Box

### Range:

1. Single / Three phase Meter Box (Hinge Type).
2. Single / Three phase Meter Box (Push fit Type).



### Features :

- 1.100% weather proof.
- 2.Rot proof and termite resistant.
- 3.Tamper proof.
- 4.Protection from unauthorised access.
- 5.Wide range available as per T.S of various Department and Organisation.

### Approved in :

PWD - Assam, M.P, U.P, Chattishgarh, Odisha, Meghalaya, Manipur, Jharkhand & West Bengal.  
SEB's - (Manipur, Meghalaya & Mizoram), KMDA, PHE-Kolkata and various Govt. & Pvt. Sector organisations.

### Note :

- Meters also available as per tailor made technical specification.
- Actual Dimensions, Colour, Model etc may vary from time to time as per availability.
- Please feel free to contact us for further information.

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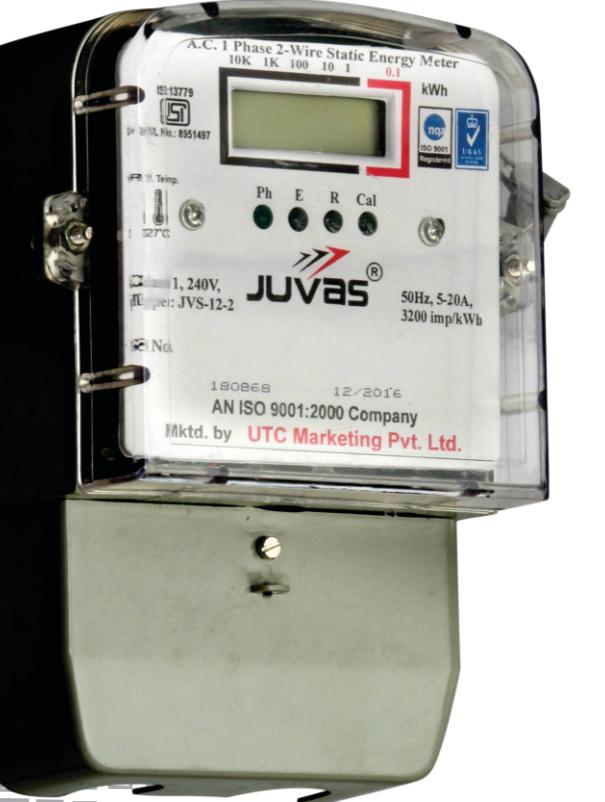
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KWH METER

