

HIGH PROFILE MULTIFUNCTION METER

Monitor the healthiness of the power systems effectively.

IDENTIFY POTENTIAL ISSUES AND MAXIMIZE POWER QUALITY.

- Protection of equipment from Under/ Over Voltage or Current or Frequency.
- Process control.
- Protection of 3 phase equipment from Single phase prevention, Overload etc.

LOAD EFFICIENCY MONITORING

- Motor load efficiency can be monitored for 5 different programmable slot along with Load Hrs. for Watt/Current (Through Communication Only)
- Customized Bar graph for Load efficiency on Software

Features

- **High / Low recording for last one minute VLL and A**
- User programmable Password Protection
- Sampling rate of 128 samples/ cycle for JEO
- **Voltage measurements up to 600 VLL**
- Programmable PT & CT ratio
- True PF and Displacement PF
- Programmable starting current in % of 5A secondary (Default 10mA)
- Programmable Energy display - Counter or Resolution based
- Energy resetting at 99999999kVAh x MF
- Front POP for better accuracy 16000 Imp/KWh
- Load Bar Graph

Technical Specification

Specification	Description
GENERAL CHARACTERISTICS	

Display type:	LCD for JEO 75xx. Integrated 8 digits, Instantaneous 4 digits.
Sensing / Measurement:	True RMS, 1 sec update time, 4 Quadrant power & energy
Rated Voltage:	50 - 600 VLL
Rated Current:	10 mA - 6A
Frequency:	45 - 65 Hz
Sampling rate	128 samples / cycle / channel JEO
Measured accuracy class:	Class 1.0

Permissible overload:	120%, Burden: 0.2VA per phase
External fuse rating:	200 mA
CT PT ratio max.:	2000 MVA programmable
Auxiliary supply:	80 - 300V AC / DC (Lower AUX. on request based on MOQ)
Power consumption:	4VA nominal. 5VA for DMC
Data update rate:	1 sec.

COMMUNICATION

Rs485 MODBUS:	Device ID & Parity: 1 - 125 for JEO, & odd, even (preferred even) Baud rate: 9600 bps to 38400 bps (preferred 9600 bps) Isolation: 2000 volts AC isolation for 1 minute between Communication & other Circuits.
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ENVIRONMENTAL CHARACTERISTICS

Operating temperature:	-10°C to +55°C (14°F - 130°F)
Storage temperature:	-25°C to +70°C (-13°F - 158°F)
Humidity:	5% to 95% non-condensing
Altitude:	Below 2000 mts
Measurement category:	CAT III
Pollution degree:	2 (As per IEC 61010)

PROTECTION CLASS

Ingress protection:	IP 51 (IP 54 front facia optional) & Double insulation (as per IEC 61010-1)
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SAFETY AND STANDARDS

Construction:	IEC/EN 61010-1 EDITION 3, CAT III, 300V LN / 600V LL, Protection Class II
Standards:	UL 61010-1, IEC/EN 62052-11

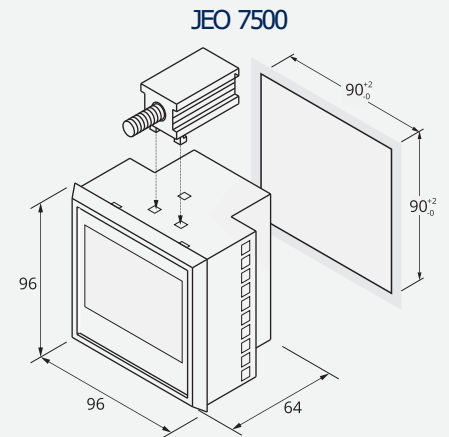
MECHANICAL CHARACTERISTICS

Weight:	Unpacked: 600gms, Packed: 800gms
Torque:	1 N-m (For 5A)
Wire-guage:	11 AWG (For 5A)

Multiplication Factor

Counter based energy mode

Full Scale in Watts : $\sqrt{3} \times V_{Pri} \times A_{Pri}$	0.4k to 4.0k	4.01k to 40k	40.1k to 400k	400.1k to 4000k	4M to 40 M	40 M to 400 M	400M to 4000M
Multiplication Factor:	0.01	0.1	1.0	10	100	1000	10000
Unit of display	kWh			MWh		GWh	



Product Selection:	JEO 7500
ACCURACY OPTION	Graphical LCD
CLASS 1.0	■
BASIC PARAMETERS	
V12 V23 V31	■
V V1 V2 V3	■
A A1 A2 A3	■
Hz	■
Angle V & A, RPM	■
Unbalance V & A	■
Neutral Current (Calculated)	■
POWER PARAMETERS	
W W1 W2 W3	■
VA VA1 VA2 VA3	■
PF PF1 PF2 PF3	■
VAR VAR1 VAR2 VAR3	■
POWER QUALITY PARAMETERS	
THD - Voltage and Current	■
High Low - Last Minute (VLL and Amps)	■ *
Power Cycles	■
INTEGRATED PARAMETERS	
Wh (Import Energy)	■
Wh (Export Energy)	■
VAh (Import Energy)	■
VAh (Export Energy)	■
VARh - Ind - (Reactive Energy Import)	■
VARh - Cap - (Reactive Energy Import)	■
VARh - Ind - (Reactive Energy Export)	■
VARh - Cap - (Reactive Energy Export)	■
Load Hours	■
Phase Energy and Load hours	■ *
ON hours	■
CO2 Emission	■
ADDITIONAL FEATURES	
Load Efficiency	■ *
Dynamic communication	■ *
COMMUNICATION	
RS485 (MODBUS)	■

Default ☐ Optional ▲ Restricted option * Through communication only