

MULTIFUNCTIONAL ENERGY METERS

Empowering you with **accurate** measurements of power & energy usage

Authorized Partner:



ELMEASURE®

Multifunction meter for comprehensive energy management



Features :

- Real True RMS Measurements
- Accuracy Class 1.0 as per IEC 62053-21
- Simultaneous sampling of voltage and current
- Low Starting Current 10mA onwards
- 3 Row, 12 Digit alphanumeric Display
- User programmable password protection
- High sampling rate 128 samples/cycle
- Field programmable Star or Delta/Single phase configuration.
- Energy Display programmable - counter based or resolution based.
- Communication with PCs, PLCs, DCS through optically isolated Rs485 serial interface
- High & Low measurements for voltage (VLL) and current (last one minute of data)
- Motor load efficiency can be monitored for 5 different programmable slots along with Load Hrs. for Watts/Current.
- Non resettable over voltage hour in diagnostic communication mode for healthiness of system.
- Co2 emission, ON hrs, Power interruptions.
- Pulse LED 16000 imp/kWh of secondary input.
- Dynamic communication with the programmable address and user selectable parameter sequence.
- Finger touch proof terminals to voltage and current connections
- Displacement PF and True PF
- Measurement of Voltage and Current THD%
- Individual Phase energy through communication for better load pattern analysis and analysis of motor

Applications :

- Energy Management Solutions (EMS)
- Motor Control Centers (MCC)
- HVAC Systems & Building Automation Platforms
- Process Monitoring with PLC/SCADA/RTU Integration
- Remote Surveillance of Electrical Panels
- Commercial and Industrial Sub-Metering for Energy Management

Parameters

PARAMETERS		Panel Mount		Group 3. ENERGY IMPORT		LG 6435	LG 6400	Group 6. REACTIVE ENERGY - EXPORT		LG 6435	LG 6400
ACCURACY		LG 6435	LG 6400	Wh Import		■	■	VAR - Total			■
Class 1.0		■	■	VAh Import		■	■	VAR1 VAR2 VAR3			■
Group 1. BASIC PARAMETERS			Load Hours Import		■	■	VARh - Ind - Import			■	
Average Voltage VLN, VLL			■	Phase Energy & Load Hours (COM)*		■	■	VARh - Cap - Import			■
Voltage LN - V1,V2,V3			■	Power Cycles		■	■	Group 7. THD			
Voltage LL - V12,V23,V31			■	ON Hours		■	■	THD Phase Wise - Voltage & Current			■
A			■	CO2 Emission		■	■	COMMUNICATION			
A1,A2,A3			■	Group 4. REACTIVE ENERGY - IMPORT				Modbus RTU - RS485		■	■
Hz			■	VAR - Total			■				
Angle V & A , RPM			■	VAR1 VAR2 VAR3			■				
Unbalance V & A			■	VARh - Ind - Import			■				
Group 2. POWER PARAMETERS			VARh - Cap - Import				■				
W- Total			■	Group 5. ENERGY EXPORT							
W1 W2 W3			■	Wh Export		■	■				
VA - Total			■	VAh Export		■	■				
VA1 VA2 VA3			■	Load Hours Export		■	■				
PF - Average			■								
PF1 PF2 PF3			■								

■ Default ★ Through communication

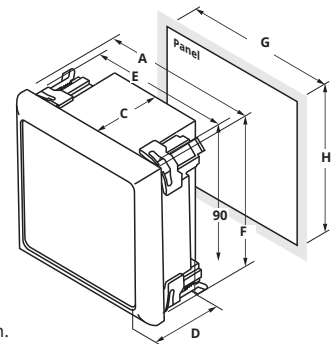
Technical Specifications:

Specification	Three Phase
GENERAL CHARACTERISTICS	
Display type:	LED 3 Row, 12 Digits Alphanumeric display
Sensing / Measurement:	True RMS, 1 sec update time, 4 quadrant Power & Energy
Rated voltage:	50-600 VLL
Rated current:	10mA - 6A (1A/5A secondary programmable)
Frequency:	45 - 65 Hz
Poles description:	3P + N
Measured accuracy class:	Class 1 as per IEC 62053-21
Programmable setting:	415V LL Nominal & Primary Programmable upto 999 kV. Burden: 0.2VA Max. per phase
Permissible overload:	120%, Burden: 0.2VA per phase
External fuse rating:	200mA slow blow
Control Power	80-300V AC/DC
Power Consumption:	5VA Max.
Data update rate:	1 sec.
COMMUNICATION	
Device ID & Parity:	1 to 125 & Odd, Even, None (Preferred Even)
Protocol & Interface:	Modbus RTU & RS485, Baud rate: 4800 bps to 38.4kbps (Preferred 9600). Isolation: 2000 volts AC isolation for 1 minute between communication and other circuits
ENVIRONMENTAL CHARACTERISTICS	
Operating temperature:	-10°C to + 55°C (14°F - 131°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 & Double insulation (as per IEC 61010-1)
SAFETY AND STANDARDS	
Construction:	IEC/EN 61010-1 edition 3, CAT III, 300V LN / 600V LL, Protection class II
Standards:	UL E530665, IEC/EN 62052-11
MECHANICAL CHARACTERISTICS	
Weight	Unpacked: 0.55 lbs, Packed: 0.77 lbs
Torque at terminals	1 N-m

Mechanical Specification

LG 6400/LG6435



Note: Dimension measured in mm / inch.

Units	A	B	C	D	E	F	G	H
MM	96	96	46	57	90	90	91	91
inch	3.77	3.77	1.81	2.24	3.54	3.54	3.58	3.58



Authorized Partner:



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ABEZ North America, Inc.
3616 Broadway, Fort Myers, FL 33901

Direct No- (239) 689-7412
Main Company No - (888) 451-2824
Fax. (239) 790-0111

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