

Digital Multifunction Panel Meters









► Simultaneous measurements of various electrical parameters

Accuracy Class 1.0 (IEC 62053-21), 0.5s (IEC 62053-22) option, 0.2S for selected models.

Alpha numeric multi-colour display LCD Single Row with 10mm height for LG2XXX Series, and LED 3 Row 4 digits with 14mm height for :LG64XX series.

Field programmable Star (Wye) or Delta configuration. Energy Display programmable - counter based or resolution based.

Energy resetting at 99999999 kVAh x MF.

Individual phase energy through communication - helps branch monitoring, better load distribution study.

Pulse LED 16000 imp/kWh for 5A.

Communication with PCs, PLCs, DCS through optically isolated RS485 serial interface (WiFi optional).

Finger touch proof terminals to voltage and current connections.

Dynamic communication with the programmable address and user selectable parameter sequence.

CO2 emission, ON hrs, Power interruptions.

Applicable for single row LCD and 3 row LED:

Fixed / Sliding demand with RTC for W, VA, VAR (LG 2550 and LG 6400).

Demand control option with 2 relay (LG 2550).

Datalog, block profile (15/30 minutes integration) - Fixed parameters for 45 days.

Individual harmonics upto 15th for LG 2550 & LG 6400.

Wide measurement range 1:1000 (6mA to 6A)

High & low measurements for voltage 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 overvoltage hour in **diagnostic communication mode** for healthiness of system.

Capture. Analyse. Execute.

Collect various electrical load parameters from the field, visualise hidden patterns through an EMS solution and make data-driven management decisions.



Display Parameters







	LED	LED - Single Row			LCD - Single Row				LED - Thre	LED - Three Row (III) LG6435E LG6400E	
	LG1119	LG 1199 Dual Source	LG 5120 Dual Source	LG2519E	LG2599E Dual Source	LG2510E	LG2520E Dual Source	LG2550E	LG6435E	LG6400E	
Accuracy											
Class 1.0	[√]	✓	√	√	√	√	√	√	√	√	
Class 0.5S	[√]	[√]	[√]	[√]	[√]	[√]	[√]	[√]	[√]	[√]	
Class 0.2S (for 5A version)								[√]		[√]	
BASIC PARAMETERS (GROUP - 1)											
V12, V23, V31, VLL Avg			√	✓		√	√	√	√	√	
V, V1, V2, V3			√	√		√	√	/	√	√	
A, A1, A2, A3			√	√	✓	√	√	✓	√	✓	
Hz			√	√		✓	√	✓	√	✓	
Angle V & A, RPM								√ *		√	
Unbalance V & A								/*		✓	
POWER PARAMETERS (GROUP - 2)											
W, W1, W2, W3			✓			✓	✓	✓	✓	✓	
VA, VA1, VA2, VA3			✓			✓	✓	✓	✓	✓	
PF, PF1, PF2, PF3			✓			√	✓	✓	✓	√	
ENERGY - IMPORT (GROUP - 3)											
Wh Import		✓	[[]	✓	✓	✓	✓	✓	✓	✓	
VAh Import			[0]		√	√	√	✓	√	√	
Load Hours Import			✓		√	√	√	✓	√	√	
Phase Energy & Load Hours (COM)						√*	√ *	√*	√ *	√*	
Power Cycles					√*	√*	√*	√*	√	✓	
ON Hours					√	√	√	✓	√ *	√*	
CO2 EMISSION								√ *		√	
REACTIVE ENERGY - IMPORT (GRO	UP - 4)										
VAR, VAR1, VAR2, VAR3								✓		✓	
VARh - Ind - Import								✓		✓	
VARh - Cap - Import								✓		✓	
ENERGY - EXPORT PARAMETERS (G	ROUP - 5	5)					'				
Wh Export								✓		✓	
VAh Export								✓		✓	
Load Hours Export								√		✓	
REACTIVE ENERGY - EXPORT PARA	METERS (GROUP -	6)								
VAR, VAR1, VAR2, VAR3								✓		✓	
VARh - Ind - Export								√		√	
VARh - Cap - Export								√		✓	
THD (GROUP - 7)											
THD - Voltage								✓	√	√	
THD - Current								√	√	✓	
COMMUNICATION											
RS485 (MODBUS)	✓	✓	✓	√	✓	✓	√	1	√	√	

 $^{[\}Box]$ Programmable to either Wh or VAh.

 $[\]hfill\square$ Any one programmable for 1119N

[√] Default

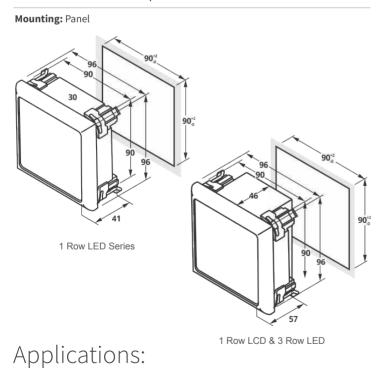
^{√*} Default in communication

	LED - Single Row			LCD - Single Row				LED - Three Row		
	1119	1199	5120	2519E	2599E	2510E	2520E	2550E	6435E	6400E
		Dual S	Source				Dual Source			
Optional Features										
Hanging CT upto 100A (3 in 1, 16mm dia.)		√	√		✓		✓		✓	
Demand Monitor: W,VA,VAR (with RTC, Fixed / Sliding for CT operated)						√ (W,VA)		✓		✓
Datalog, block profile (15/30 minutes Integration) - Fixed parameters for 45 days								✓		✓
Demand Control with 2 Relay								✓		✓
WiFi (for CT Operated only) - MOQ										✓
Relay output upto								2		2
Individual Harmonics upto 15th								√		✓

Energy Reset Value

Full scale in Watts: √3 x VPri x APri	0.4k to 4.0k	4.01k to 40k	40.1k to 400k	400.1k to 4000k	4M to 40M	40M to 400M	400M to 4000M
Reset Value (VAh)	999.99999M	9.999999G	99.999999G	999.99999G	9999.9999G	9999.9999G	9999.9999G

Mechanical Specifications:

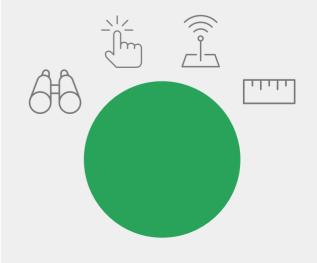


High performance digital meter for simultaneous measurements of electrical qualities like voltage, current, power, energy, frequency, power factor parameters.

 Designed to offer precise energy measurements for power and metering and network monitoring applications.

Extensive versatility to meet your needs.

Consistent reliability, superior design, and the flexibility to meet your energy metering needs. With a huge range of selectable models to suit various field applications, our MFM LG series offer you unrivalled energy visibility by providing granular second-wise data of the parameters that matter.



Technical Specifications

Display type	LED Single Row (6 digits)	LCD Single Row (7 digits)	LED 3 Row (4 digits each)							
Sensing / Measurement	True RMS, 1 sec update time, 4 quadrant Power & Energy									
Rated voltage	50 - 550 VLL									
Rated Current	10mA - 6A for 5A meter	6mA - 6A for 5A meter								
Frequency	45 - 65 Hz									
Poles description	3P + N									
Measured accuracy class	Class 1.0 default (Class 0.5S /	Class 0.2S as per IE 62053-22 Opt	ional)							
Programmable setting	415V LL Nominal & Primary P	415V LL Nominal & Primary Programmable upto 999 kV. Burden: 0.2VA Max. per phase								
Permissible overload	120%, Burden: 0.2VA per pha	120%, Burden: 0.2VA per phase								
External fuse rating	200mA slow blow	· ·								
CT PT ratio max.	2000 MVA programmable									
Auxiliary supply	80-300V AC/DC, Lower AUX av	vailable on request for selected m	odels.							
Power consumption	5 VA Max.									
Data update rate	1sec									
COMMUNICATION										
Device ID & Parity	1 to 247 & Odd, Even, None (Preferred Even)	1 to 125 & Odd, Even, None (Preferred Even)							
Protocol & Interface	Modbus RTU & RS485 Baud rate: 4800 bps to 38.4kb Isolation: 2000 volts AC isolat	ops (Preferred 9600). ion for 1 minute between commu	unication and other circuits							
			WiFi Protocol: 802.11 b/g/n Frequency: 2.4 GHz ~ 2.5 GHz Security: WPA/WPA2, WPA-PSK/WPA2-PSK Encryption: WEP/TKIP/AES Network Protocol: IPv4, TCP Receive Sensitivity: -83 dBm Typical							
ENVIRONMENTAL CHARA	CTERISTICS									
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		「III, 300V LN / 550V LL, Protection	class II							
Standards	UL 61010-1, IEC/EN 62052-11	, ,,,								
MECHANICAL CHARACTE										
Weight	Unpacked: 250gms, Packed: 3	300gms	Unpacked: 275 gms, Packed: 350gms							
			,							
Torque at terminals	1 N-m (CT Operated), 2.5 N-m	(Direct Current)								



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