

**INSTRUCTION MANUAL**

Digital Panel Meter  
Basic Multifunction Meter  
4400 LED series



Manufacturer assumes no responsibility for a hazard or damage caused by incorrect or non-application of any of the instructions attached herein. Under no circumstance shall Larsen & Toubro be liable for any consequential or resulting injury or for loss, damage or expense directly or indirectly from the use of this product. Sufficient care is taken to provide all information regarding the product but Larsen & Toubro does not claim any responsibility for the damage caused by using the product directly or indirectly. Use according to the operating instructions, professional practices, wiring rules, codes, safety regulations applicable to the given installation.



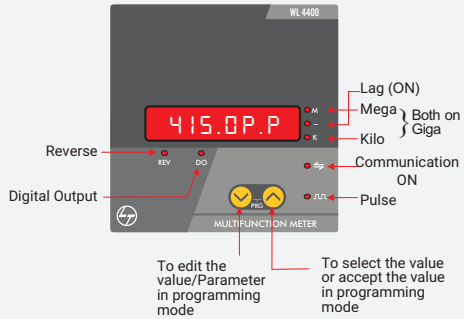
During normal operation of this instrument, hazardous voltages are present at the rear terminals, which can cause injury or death. Installation, disconnection or removal of the meter should be carried out only by qualified, trained personnel, after de-energizing connected circuits. Improper installation, including improper grounding will void warranty. Product warranty void if seal is broken.



**1. Features**

- Accuracy class 1 as per IEC 62053-21, class 0.5, 0.5S as per IEC 62053-22
- True RMS measurement
- Password protection provision
- Site selectable for 3 Phase 4 Wire, 3 Phase 3 Wire, 1 Phase
- Site programmable CT/PT ratio
- Auto-scaling of kilo, mega & giga values
- Positive accumulation of active energy
- Autoscrolling & freeze mode provision is available
- User selectable energy measurement : Wh/VAh

**2. LED Indication**



**3. Display of Parameters**

Display	Meaning
LL	Voltage Line to Line
Ln	Voltage Line to Neutral
ry	Voltage RY Phase
yb	Voltage YB Phase
br	Voltage BR Phase
A	Average Current
F	Frequency
VA	Total VA

W	Total Watts
PF	Power Factor
Wh	Active Energy Received
Ld. Hr	Load Hour
PF/Y/b	Power Factor R Phase/Y Phase/B Phase
VA/Y/b	VA - R Phase/Y Phase/B Phase
Vr/Y/b	Voltage R / Y / B Phase
Ir/Y/b	Current R / Y / B Phase
Wr/Y/b	Watts R / Y / B Phase

**4. Technical Specification**

Type of measurement	Type	3 Ph 4 W, 3 Ph 3 W, 1 Ph
Measurement accuracy		True RMS, 64 samples per cycle 1 sec update time
		Class 1 as per IEC 62053-21
		Class 0.5 as per IEC 62053-22
Display type & resolution	LED	Class 0.5S as per IEC 62053-22
		4 digit for instantaneous & 6 digits for cumulative

Measuring circuit	Input voltage	50 - 550 VLL PT Primary and Secondary user programmable for LT and HT applications Burden: 0.2VA max per phase
	Input current	-/5A and -/1A site selectable Current range from 10% to 120% of In (50mA-5A), Starting current : 0.4% of full scale
		CT Primary and Secondary user programmable for LT and HT applications
	Frequency	40 - 70 Hz
Auxiliary circuit	Aux voltage	80 - 300V AC/DC
	Aux burden	<5VA
	Freq range	40 - 70 Hz
Electrical requirements	Test of power consumption	as per IEC 62053-21
	Voltage dips and interrupts	as per IEC 62053-21
	Short time over current protection	10A max continuous, 20 times of In for 3 sec
Electro-magnetic compatibility (EMC)	Fast transients burst test	±4 kV as per IEC 61000-4-4
	Immunity to electrostatic discharge	±8 kV air discharge, ±6 kV contact discharge as per IEC 61000-4-2
	Radiated, Radio-frequency, Electromagnetic field immunity test	10 V/m as per 61000-4-3
	Immunity to electromagnetic HF fields through conducted lines	10 V/m as per IEC 61000-4-6
	Surge immunity test	±6 kV as per IEC 61000-4-5
	Rated power frequency magnetic fields	1 A/m as per IEC 61000-4-8
	Emission	Class B as per CISPR 22

Insulation properties	Impulse voltage test	±6 kV as per IEC 62052-11
	AC voltage test	4 kV double insulation as per IEC 62053-21
	Insulation resistance	500 V DC as per IS 13779
Operating conditions	Operating temperature	-10° C to +55° C
	Storage temperature	-25° C to +70° C
	Humidity	5% to 95% relative humidity non-condensing
	Recommended wire	2.5 sq mm
Mechanical conditions	Shock	As per standard IEC 60068-2
	Vibration	10 to 55 Hz, 0.15 mm amplitude
	Casing	Plastic mould protected to IP51 from front side
Safety	Measurement category	CAT III
	Pollution degree	2
	Protection	IP20 at terminals, IP51 on front
Weight & dimensions	Product weight	300 gms
	Bezel dimension (W x H x D)	96 x 96 x 58 mm
	Panel cutout	92 x 92 mm <sup>+0.8</sup> / <sub>0</sub>
Outputs		Meter constant: 1250/(external CT ratio x PT ratio)
Communication	Type	RS485 port Modbus RTU
	Baud rate	2400, 4800, 9600, 19200 bps (site selectable)
	Parity	Odd, Even, None
	Slave id	1 to 247 (programmable)
	Isolation	2 kVAC isolation for 1 minute between communication and other circuits
Certifications		CE, RoHS

## 5. Programming Mode

### 5.1 Programming keys

- ⬇️ To select Edit Mode and save parameter
- ⬇️ DOWN to decrement value or parameter

### 5.2 General Programming Guide

- Press ⬆️ UP + ⬇️ Down to enter Programming Mode
- Enter Password (default value 0000)
- Blink indicates Edit Mode is ON
- Press ⬇️ DOWN to decrement value 0/9/8/7/6/5/4/3/2/1
- Press ⬆️ UP to move to the next digit till 4th digit
- If Password is correct, meter display reads **CL.P**
- For Clear Mode move to step 5.2.1
- For Programming Mode move to step 5.2.2

#### 5.2.1. Clear Mode

- Press ⬆️ UP to Enter Clear Mode Display reads "CL.P"
- Press ⬆️ UP to clear parameter. Display prompts "n"
- Press ⬇️ DOWN to change for "y" (yes) to clear values
- Press ⬆️ UP to clear

If password is incorrect, meter will display next parameter but cannot be edited.

### 5.2.2. Programming Mode

- Press ⬇️ DOWN to enter Programming Mode
- Press ⬆️ UP key to select the Edit Mode
- Blink** indicates Edit Mode is ON
- Press ⬇️ DOWN to decrement values or to select from available options
- Press ⬆️ UP to accept the value of the parameter
- Press ⬇️ DOWN to edit next parameters till end after the configuration of last parameter display screen will prompt "SRVE", Display reads "y" (YES)
- Press ⬇️ DOWN to change to "n" (NO)
- Press ⬆️ UP to save

### 5.3. Display

**415.0P.P** First four digit : Parameter value  
5th & 6th digit : Parameter to edit

Programming Parameter	Default	Option/Range
ConFIG Defines the power system configuration. <b>3P4W.C0</b>	3P 4W	3P 4W 3P 3W 1 Phase
PT Primary <b>4150P.P</b>	415	100V-999kV To set 33kV Set first four digits (3300) as explained above press UP/DOWN key to place decimal point at appropriate location. Letter K/M will indicate the Kilo/Mega. M & K both LED will glow for Giga

PT Secondary <b>4150P.5</b>	415.0	50V to 550V
CT Primary <b>5000C.P</b>	5.000	0.5A - 99kA
CT Secondary <b>5000C.5</b>	5.000	0.5A - 6A
Reverse Lock <b>no RE</b>	No	Yes/No If YES it blocks energy accumulation in case the CT polarity reverse.
VA Selection <b>VECH.HUR</b>	VECH	Method of VA Selection: Arithmetic /Vector harmonics /Vector
*Digital output 1 <b>dSbL.d1</b>	disable	Single Phase/Wh/Under PF, F, A, V/ Over W, F, A, V
*Threshold value 1 <b>1000.d1</b>	1000	000-999.9 M
*Digital Output Delay <b>3000.dd</b>	3.000	1-180 sec
Baud Rate <b>9600.bA</b>	9600	2400, 4800, 9600 19.2k
Parity <b>EUENPr</b>	Even	Even/Odd/none
Slave Id <b>1.0005L</b>	1.000	1 to 247
PASSWORD <b>0000P</b>	0000	0000 to 9999
Energy <b>FESLEN</b>	Resolution	Resolution/Counter
Pulse Output ON time <b>250.0P0</b>	250	50 to 500 msec
Energy Selection <b>Wh ES</b>	Wh	Wh/VAh

\* Optional for select product variants

### 5.4. Enabling and Disabling Auto Scrolling

Press DOWN ⬇️ for 6 secs

Display Shows: EnbL. Au.

Again press DOWN ⬇️ for 6 sec

Display Shows: dSbL. Au.

## 6. Memory Map

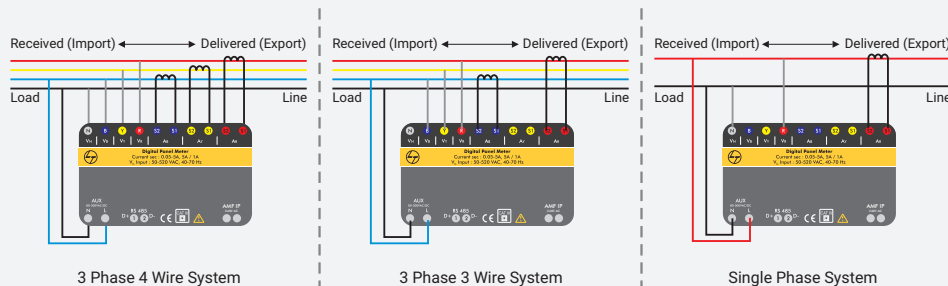
Address	Parameter	Data type
40101	Watts Total	float
40103	Watts R phase	float
40105	Watts Y phase	float
40107	Watts B phase	float
40117	PF Avg (inst)	float
40119	PF R phase	float
40121	PF Y phase	float

Address	Parameter	Data type
40123	PF B phase	float
40125	VA total	float
40127	VA R phase	float
40129	VA Y phase	float
40131	VA B phase	float
40133	VL L average	float
40135	VR Y phase	float

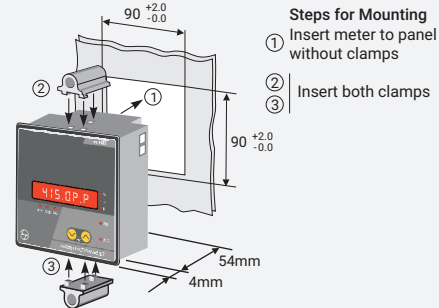
Address	Parameter	Data type
40137	VY B phase	float
40139	VB R phase	float
40141	VL N average	float
40143	V R phase	float
40145	V Y phase	float
40147	V B phase	float
40149	Current Total	float

Address	Parameter	Data type
40151	Current R phase	float
40153	Current Y phase	float
40155	Current B phase	float
40157	Frequency	float
40159	Wh	float
40161	VAh	float
40217	Load Hours	Unsigned long

## 7. Wiring Diagram



## 8. Mounting Dimensions



In case of complaint please contact  
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Telephone : 022 6774 5858  
email: cic@LNTEBG.com

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Electrical Standard Products  
L&T Business Park, Tower 'B' / 3rd Floor  
Saki Vihar Road, Powai Mumbai 400 072  
Website: www.lntebg.com

**INSTRUCTION MANUAL**

Digital Panel Meter  
Basic Multifunction Meter  
4400 LCD series



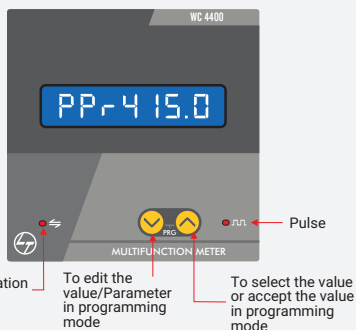
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During normal operation of this instrument, hazardous voltages are present at the rear terminals, which can cause injury or death. Installation, disconnection or removal of the meter should be carried out only by qualified, trained personnel, after de-energizing connected circuits. Improper installation, including improper grounding will void warranty. Product warranty void if seal is broken.


**1. Features**

- Accuracy class 1 as per IEC 62053-21, class 0.5 as per IEC 62053-22
- True RMS measurement
- Password protection provision
- Site selectable for 3 Phase 4 Wire, 3 Phase 3 Wire, 1 Phase
- Site programmable CT/PT ratio
- Auto-scaling of kilo, mega & giga decimal value
- Positive accumulation of active energy
- Autoscrolling & freeze mode provision is available
- User selectable energy measurement : Wh/VAh

**2. LED Indication**


Communication ON  
To edit the value/Parameter in programming mode  
Pulse  
To select the value or accept the value in programming mode

**3. Display of Parameters**

Display	Meaning
LL	Voltage Line to Line
Ln	Voltage Line to Neutral
ry	Voltage RY Phase
yb	Voltage YB Phase
br	Voltage BR Phase
A	Average Current
F	Frequency
LR	Total VA
W	Total Watts

PF	Power Factor
Wh	Active Energy Received
Ld.Hr	Load Hour
Pr/Y/b	Power Factor R Phase/Y Phase/B Phase
Gr/Y/b	VA - R Phase/Y Phase/B Phase
Ur/Y/b	Voltage R / Y / B Phase
Rr/Y/b	Current R / Y / B Phase
Wr/Y/b	Watts R / Y / B Phase

**4. Technical Specification**

Type of measurement	Type	3 Ph 4 W, 3 Ph 3 W, 1 Ph
Measurement accuracy		True RMS, 64 samples per cycle 1 sec update time
		Class 1 as per IEC 62053-21
		Class 0.5 as per IEC 62053-22
Display type and resolution	LCD	Class 0.5S as per IEC 62053-22
		4 digit for instantaneous & 7 digits for cumulative

Measuring circuit	Input voltage	50 - 550 VLL PT Primary and Secondary user programmable for LT and HT applications Burden: 0.2VA max per phase
	Input current	-/5A and -/1A site selectable Current range from 10% to 120% of In (50mA-6A), Starting current : 0.6% of full scale
		CT Primary and Secondary user programmable for LT and HT applications
	Frequency	40 - 70 Hz
Auxiliary circuit	Aux voltage	80 - 300V AC/DC
	Aux burden	<5VA
	Freq range	40 - 70 Hz
Electrical requirements	Test of power consumption	as per IEC 62053-21
	Voltage dips and interrupts	as per IEC 62053-21
	Short time over current protection	10A max continuous, 20 times of In for 3 sec
Electro-magnetic compatibility (EMC)	Fast transients burst test	±4 kV as per IEC 61000-4-4
	Immunity to electrostatic discharge	±8 kV air discharge, ±6 kV contact discharge as per IEC 61000-4-2
	Radiated, Radio-frequency, Electromagnetic field immunity test	10 V/m as per 61000-4-3
	Immunity to electromagnetic HF fields through conducted lines	10 V/m as per IEC 61000-4-6
	Surge immunity test	±6 kV as per IEC 61000-4-5
	Rated power frequency magnetic fields	1 A/m as per IEC 61000-4-8
	Emission	Class B as per CISPR 22

Insulation properties	Impulse voltage test	±6 kV as per IEC 62052-11
	AC voltage test	4 kV double insulation as per IEC 62053-21
	Insulation resistance	500 V DC as per IS 13779
Operating conditions	Operating temperature	-10° C to +55° C
	Storage temperature	-25° C to +70° C
	Humidity	5% to 95% relative humidity non-condensing
	Recommended wire	2.5 sq mm
Mechanical conditions	Shock	As per standard IEC 60068-2
	Vibration	10 to 55 Hz, 0.15 mm amplitude
	Casing	Plastic mould protected to IP51 from front side
Safety	Measurement category	CAT III
	Pollution degree	2
	Protection	IP20 at terminals, IP51 on front
Weight & dimensions	Product weight	300 gms
	Bezel dimension (W x H x D)	96 x 96 x 58 mm
	Panel cutout	92 x 92 mm $\pm 0.08$
Outputs		Meter constant: 2500/(external CT ratio x PT ratio)
Communication	Type	RS485 port Modbus RTU
	Baud rate	2400, 4800, 9600, 19200 bps (site selectable)
	Parity	Odd, Even, None
	Slave id	1 to 247 (programmable)
	Isolation	2 kVAC isolation for 1 minute between communication and other circuits
Certifications		CE, RoHS

## 5. Programming Mode

### 5.1 Programming keys

- ☺ To select Edit Mode and save parameter
- ☹ DOWN to decrement value or parameter

### 5.2 General Programming Guide

- Press ☺ UP + ☹ Down to enter Programming Mode
- Enter Password (default value 0000)
- Blink indicates Edit Mode is ON
- Press ☹ DOWN to decrement value  
0/9/8/7/6/5/4/3/2/1
- Press ☺ UP to move to the next digit till 4th digit  
If Password is correct, meter display reads  $\overline{CL}$
- For Clear Mode move to step 5.2.1
- For Programming Mode move to step 5.2.2

#### 5.2.1 Clear Mode

- Press ☺ UP to Enter Clear Mode Display reads " $\overline{CL}$ "
- Press ☺ UP to clear parameter. Display prompts "n"
- Press ☹ DOWN to change for "y" (yes) to clear values
- Press ☺ UP to clear

If password is incorrect, meter will display next parameter but cannot be edited.

### 5.2.2 Programming Mode

- Press ☹ DOWN to enter Programming Mode
- Press ☺ UP key to select the Edit Mode
- Blink** indicates Edit Mode is ON
- Press ☹ DOWN to decrement values or to select from available options
- Press ☺ UP to accept the value of the parameter
- Press ☹ DOWN to edit next parameters till end after the configuration of last parameter display screen will prompt "SRVE", Display reads "y" (YES)
- Press ☹ DOWN to change to "n" (NO)
- Press ☺ UP to save

### 5.3. Display

$\overline{PP-415.0}$  First three digit : Parameter to edit  
4th to 7th digit : Parameter value

Programming Parameter	Default	Option/Range
ConFIG Defines the power system configuration. $\overline{CO3P.4W}$	3P 4W	3P 4W 3P 3W 1 Phase
PT Primary $\overline{P.P-415.0}$	415	100V-999kV To set 33kV Set first four digits (3300) as explained above press UP/DOWN key to place decimal point at appropriate location. Letter K/M will indicate the Kilo/Mega.

PT Secondary $\overline{P.SY415.0}$	415.0	50V to 550V
CT Primary $\overline{C.P-5.000}$	5.000	0.5A - 99kA
CT Secondary $\overline{C.SY5.000}$	5.000	0.5A - 6A
Reverse Lock $\overline{RE no}$	No	Yes/No If YES it blocks energy accumulation in case the CT polarity reverse.
VA Selection $\overline{VA.VECH}$	VECH	Method of VA Selection: Arithmetic / Vector harmonics /Vector
* Digital Output 1 $\overline{d1.d5bL}$	disable	disable, Wh, Under/Over - PF, V, A, F
* Threshold value $\overline{d1.1000}$	1000	0.001-999.9
* Digital Output 2 $\overline{d2.d5bL}$	disable	disable, Wh, Under/Over - PF, V, A, F
* Threshold value 2 $\overline{d2.1000}$	1000	0.001-999.9
* Digital Output Delay $\overline{d.d3000}$	3.000	1-180 sec
Baud Rate $\overline{bR.9600}$	9600	2400, 4800, 9600 19.2k
Parity $\overline{P.r.EVEN}$	Even	Even/Odd/none
Slave Id $\overline{SL.1000}$	1.000	1 to 247
PASSWORD $\overline{P.y0000}$	0000	0000 to 9999
Energy $\overline{ENFESL}$	Resolution	Resolution/Counter
Pulse Output ON Time $\overline{PO.250.0}$	250	50 to 500 msec
Energy Selection $\overline{ES Wh}$	Wh	Wh/VAh

### 5.4. Enabling and Disabling Auto Scrolling

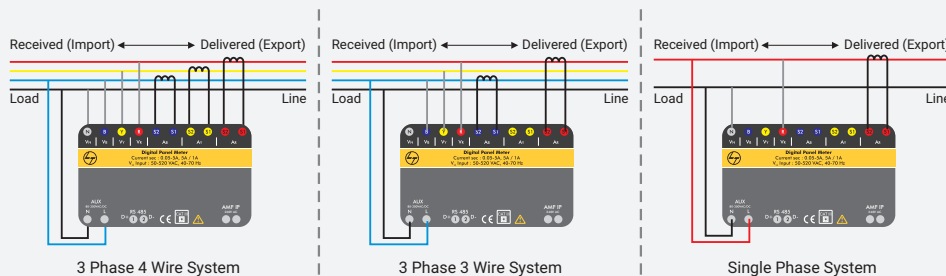
Press DOWN ☹ for 6 sec  
Display Shows: EnBL. Au.  
Again press DOWN ☹ for 6 sec  
Display Shows: dSBL. Au.

\* optional for select product variants

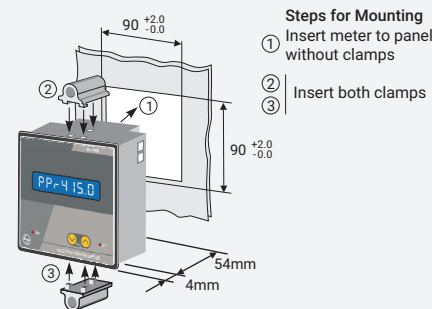
## 6. Memory Map

Address	Parameter	Data type	Address	Parameter	Data type	Address	Parameter	Data type	Address	Parameter	Data type
40101	Watts Total	float	40123	PF B phase	float	40137	VY B phase	float	40151	Current R phase	float
40103	Watts R phase	float	40125	VA total	float	40139	VB R phase	float	40153	Current Y phase	float
40105	Watts Y phase	float	40127	VA R phase	float	40141	VL N average	float	40155	Current B phase	float
40107	Watts B phase	float	40129	VA Y phase	float	40143	V R phase	float	40157	Frequency	float
40117	PF Avg (inst)	float	40131	VA B phase	float	40145	V Y phase	float	40159	Wh	float
40119	PF R phase	float	40133	VL L average	float	40147	V B phase	float	40161	VAh	float
40121	PF Y phase	float	40135	VR Y phase	float	40149	Current Total	float	40217	Load Hours	Unsigned long

## 7. Wiring Diagram



## 8. Mounting Dimensions



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L&T Business Park, Tower 'B' / 3rd Floor  
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WC44000501A



**INSTRUCTION MANUAL**

Digital Panel Meter  
Basic Multifunction Meter  
4405 LED series



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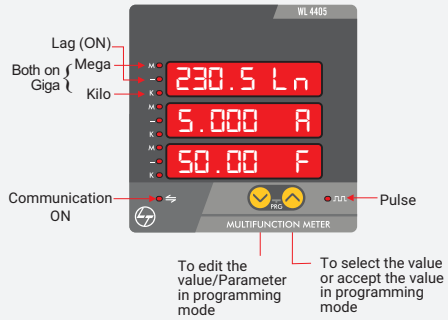
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**1. Features**

- Accuracy class 1 as per IEC 62053-21, class 0.5, 0.5S as per IEC 62053-22
- True RMS measurement
- Password protection provision
- Site selectable for 3 Phase 4 Wire, 3 Phase 3 Wire, 1 Phase
- Site programmable CT/PT ratio
- Auto-scaling of kilo, mega & giga values
- Positive accumulation of active energy
- Autoscrolling & freeze mode provision is available
- User selectable energy measurement : Wh/VAh

**2. LED Indication**



**3. Display of Parameters**

Display	Meaning
LL	Voltage Line to Line
Ln	Voltage Line to Neutral
rY	Voltage RY Phase
Yb	Voltage YB Phase
br	Voltage BR Phase
A	Average Current
F	Frequency
VA	Total VA

W	Total Watts
PF	Power Factor
Wh	Active Energy Received
Ld.Hr	Load Hour
or/Y/b	Power Factor R Phase/Y Phase/B Phase
sr/Y/b	VA - R Phase/Y Phase/B Phase
Ur/Y/b	Voltage R / Y / B Phase
Ir/Y/b	Current R / Y / B Phase
Wr/Y/b	Watts R / Y / B Phase
Wh.Old	Active energy received old
Ld.Hr.O	Load Hour Old

**4. Technical Specification**

Type of measurement	Type	3 Ph 4 W, 3 Ph 3 W, 1 Ph True RMS, 64 samples per cycle 1 sec update time
Measurement accuracy		Class 1 as per IEC 62053-21 Class 0.5 as per IEC 62053-22 Class 0.5S as per IEC 62053-22
Display type & resolution	LED	4 digit for instantaneous & 6 digits for cumulative

Measuring circuit	Input voltage	50 - 550 VLL PT Primary and Secondary user programmable for LT and HT applications Burden: 0.2VA max per phase
	Input current	-/5A and -/1A site selectable Current range from 10% to 120% of In (50mA-5A), Starting current : 0.4% of full scale CT Primary and Secondary user programmable for LT and HT applications
	Frequency	40 - 70 Hz
Auxiliary circuit	Aux voltage	80 - 300V AC/DC
	Aux burden	<5VA
	Freq range	40 - 70 Hz
Electrical requirements	Test of power consumption	as per IEC 62053-21
	Voltage dips and interrupts	as per IEC 62053-21
	Short time over current protection	10A max continuous, 20 times of In for 3 sec
Electro-magnetic compatibility (EMC)	Fast transients burst test	±4 kV as per IEC 61000-4-4
	Immunity to electrostatic discharge	±8 kV air discharge, ±6 kV contact discharge as per IEC 61000-4-2
	Radiated, Radio-frequency, Electromagnetic field immunity test	10 V/m as per 61000-4-3
	Immunity to electromagnetic HF fields through conducted lines	10 V/m as per IEC 61000-4-6
	Surge immunity test	±6 kV as per IEC 61000-4-5
	Rated power frequency magnetic fields	1 A/m as per IEC 61000-4-8
Emission	Class B as per CISPR 22	

Insulation properties	Impulse voltage test	±6 kV as per IEC 62052-11
	AC voltage test	4 kV double insulation as per IEC 62053-21
	Insulation resistance	500 V DC as per IS 13779
Operating conditions	Operating temperature	-10° C to +55° C
	Storage temperature	-25° C to +70° C
	Humidity	5% to 95% relative humidity non-condensing
	Recommended wire	2.5 sq mm
Mechanical conditions	Shock	As per standard IEC 60068-2
	Vibration	10 to 55 Hz, 0.15 mm amplitude
	Casing	Plastic mould protected to IP51 from front side
Safety	Measurement category	CAT III
	Pollution degree	2
	Protection	IP20 at terminals, IP51 on front
Weight & dimensions	Product weight	300 gms
	Bezel dimension (W x H x D)	96 x 96 x 58 mm
	Panel cutout	90 x 90 mm <sup>±0</sup>
Outputs		Meter constant: 1250/(external CT ratio x PT ratio)
Communication	Type	RS485 port Modbus RTU
	Baud rate	2400, 4800, 9600, 19200 bps (site selectable)
	Parity	Odd, Even, None
	Slave id	1 to 247 (programmable)
Certifications	Isolation	2 kVAC isolation for 1 minute between communication and other circuits
		CE, RoHS

## 5. Programming Mode

### 5.1 Programming keys

- To select Edit Mode and save parameter
- DOWN to decrement value or parameter

### 5.2 General Programming Guide

- Press UP + DOWN to enter Programming Mode
- Enter Password (default value 0000)
- Blink indicates Edit Mode is ON
- Press DOWN to decrement value  
0/9/8/7/6/5/4/3/2/1
- Press UP to move to the next digit till 4th digit  
If Password is correct, meter display reads [CLR]
- For Clear Mode move to step 5.2.1
- For Programming Mode move to step 5.2.2

#### 5.2.1. Clear Mode

- Press UP to Enter Clear Mode Display reads "Set.CLR"
- Press UP to clear parameter. Display prompts "no"
- Press DOWN to change for "YES" (yes) to clear values
- Press UP to clear

If password is incorrect, meter will display next parameter but cannot be edited.

#### 5.2.2. Programming Mode

- Press DOWN to enter Programming Mode
- Press UP key to select the Edit Mode
- Blink indicates Edit Mode is ON

- Press DOWN to decrement values or to select from available options
- Press UP to accept the value of the parameter
- Press DOWN to edit next parameters till end after the configuration of last parameter display screen will prompt "SAVE", Display reads "YES" (YES)
- Press DOWN to change to "no" (NO)
- Press UP to save

### 5.3. Display

3P.4W Row1: Options

ConF Row2: Parameter

Programming Parameter	Default	Option/Range
ConF Defines the power system configuration. [3P.4W]	3P 4W	3P 4W 3P 3W 1 Phase
PT Primary [P.Pri]	415	100V-999kV To set 33kV Set first four digits (3300) as explained above press UP/DOWN key to place decimal point at appropriate location. Letter K/M will indicate the Kilo/Mega.

PT Secondary [P.SEC]	415.0	50V to 550V
CT Primary [C.Pri]	5.000	0.5A - 99kA
CT Secondary [C.SEC]	5.000	0.5A - 6A
Reverse Lock [REV.L]	no	Yes/No If YES it blocks energy accumulation in case the CT polarity reverse.
VA Selection [VA.SL]	VEC.H	Method of VA Selection: Arithmetic /Vector harmonics /Vector
Baud Rate [bAUD]	9600	2400, 4800, 9600 19.2k
Parity [P.RTY]	Even	Even/Odd/none
Slave Id [SL.ID]	1.000	1 to 247
PASSWORD [PYD]	0000	0000 to 9999
Energy [ENER]	Resolution	Resolution/Counter
Pulse Output ON time [POP.T]	250	50 to 500 msec
Energy Selection [E.SEL]	Wh	Wh/VAh

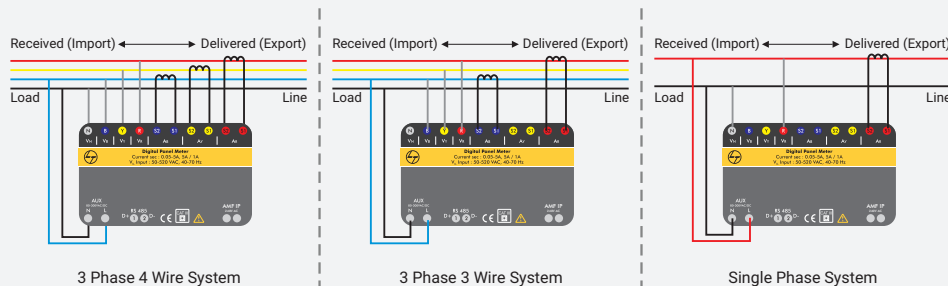
### 5.4. Enabling and Disabling Auto Scrolling

Press DOWN for 6 secs  
Display Shows: EnbL. Auto  
Again press DOWN for 6 sec  
Display Shows: dSbL. Auto

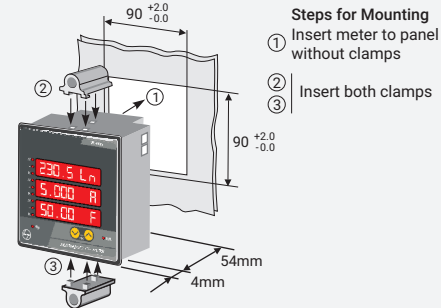
## 6. Memory Map

Address	Parameter	Data type	Address	Parameter	Data type	Address	Parameter	Data type	Address	Parameter	Data type
40101	Watts Total	float	40123	PF B phase	float	40137	VYB phase	float	40151	Current R phase	float
40103	Watts R phase	float	40125	VA total	float	40139	VBR phase	float	40153	Current Y phase	float
40105	Watts Y phase	float	40127	VA R phase	float	40141	VLN average	float	40155	Current B phase	float
40107	Watts B phase	float	40129	VA Y phase	float	40143	V R phase	float	40157	Frequency	float
40117	PF Avg (inst)	float	40131	VA B phase	float	40145	V Y phase	float	40159	Wh	float
40119	PF R phase	float	40133	VLL average	float	40147	V B phase	float	40161	VAh	float
40121	PF Y phase	float	40135	VRY phase	float	40149	Current Total	float	40217	Load Hours	Unsigned long

## 7. Wiring Diagram



## 8. Mounting Dimensions



In case of complaint please contact  
CUSTOMER INTERACTION CENTRE (CIC)  
TOLL-Free: 1800 233 5858, 1800 200 5858  
Telephone : 022 6774 5858  
email: cic@LNTEBG.com

**L&T Electrical & Automation**  
Electrical Standard Products  
L&T Business Park, Tower 'B' / 3rd Floor  
Saki Vihar Road, Powai Mumbai 400 072  
Website: www.Lntebg.com