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User Manual

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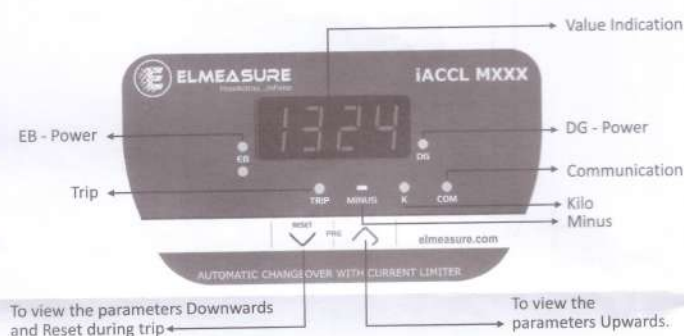
iACCL
M300
M330

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1. FEATURES

- True RMS measurement.
- User configurable (Editable) password.
- Simultaneous sampling of Volts & Amps.
- RS485 optional.
- Inverse Current tripping.
- Over current, Under and Over voltage protection is available for both EB and DG.
- Programmable DG start time which avoids overloading the DG.
- Intelligent controller trips exactly on the programmed settings.
- Resetting the Trip by key press or through communication.
- Programmable EB healthy selection (All phases/1Phase).
- MCB reset (OFF & ON) option available for overload in DG for M300 & M330 models.
- Programmable KWh and KVAh.
- Programmable DG phase selection 3Phase or 1Phase (Applicable only for ACCL M300)
- Prepaid option is available only for DG.

2. KEY & LED INDICATION



3. PROGRAMMING MODE

3.1 Programming Keys

- To decrement value and scroll the parameter
- To select, edit & save the value / parameter

3.2 Setup Procedure

Press + to enter Setup mode Display shows 0000). Enter Password (default is 1000). Blinking digit indicates editing of that digit. Press to decrement value from 9 to 1. Press to move to the next digit till 4th digit. If Password is correct, editing is possible. Enters into Setup mode and meter display's VA Selection.

Press to view the setup parameter.
Press to view the parameter option /value.
Again press key to select and edit parameter value /option
Press to decrement values / change the available options.
Press to save the option / value of the parameter.
Press to edit next parameter till end of last parameter and display screen will prompt **SAUy** with display reads **y** blinking.
Press to change the options y(save) or n(not save).
Press to save.

3.3 Display

Programming Parameter	Default	Option/Range
Method of VA Selection	UASL	UETH Option : Arithmetic, Vector harmonics, Vector
Baud rate	BAUD	9600 Option : 2400, 4800, 9600, 19200, 38400
Parity	Prty	EVEN Option : EVEn / odd / no
Device ID	DUId	1000 Range : 1-247
Password	Pd	1000 Range: 1000 -9999.
Energy selection	ESEL	Wh Option : Wh,VAh
Starting Amps	ASUP	0400 Range: 0.02 to 10% of FS
Starting voltage	USUP	1000 Range: 10 to 40V
Low Voltage	ULo	1800 Range: 165 to 210V
High Voltage	UH	2600 Range: 240 to 270V
DG over Amps	dGA	4000 Range : 0 to 40A/63A/80A/100A/125A
EB over Amps	EbA	4000 Range : 0.500 to 40A/63A/80A/100A/125A
DG delay time	dGdt	5000 Range : 1 to 30 sec
Cycle 1 set time	C1t	7000 Range : 6 to 150sec
Cycle 2 set time	C2t	1500 Range : 6 to 150sec
Cycle 3 set time	C3t	3000 Range : 6 to 150sec
Cycle 4 set time	C4t	6000 Range : 6 to 150sec
No.of trip Cycle	ErPC	5000 Range : 5 to 10
DG Output selection *	dGPh	3Ph Options : 3phase, 1phase
EB healthy selection	EbHL	ALLP Options : ALL.P(all phase), Any 1phase
Save	SAUy	Yes/No

* Not applicable for M330.
For M330 DG selection factory set only.

Current rating:
M300: 40A/63A/80A/100A/125A
M330: 40A

3.4 Enabling and Disabling Auto Scrolling

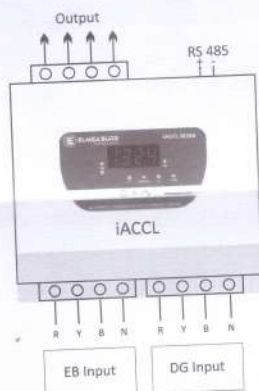
Press key continuously for 5 secs or until display shows **EnbL** Display starts to scroll parameters every 5 sec. To disable Autoscrolling, Press any key, display shows **d5bL** and remains in a particular page.

4. Display of Parameter:

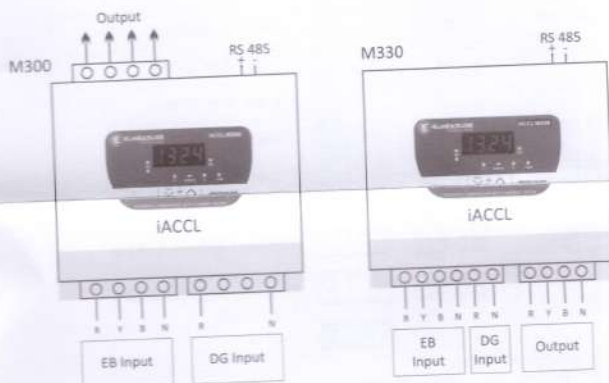
Display	Meaning	Display	Meaning
U _{LL} d	Voltage line to line DG	y _b d	Voltage YB Phase DG
U _L n _d	Voltage line to Neutral DG	b _r d	Voltage BR Phase DG
F _d	Frequency DG	U _r d	R phase DG
A	Current	U _y d	Y phase DG
A _n	Amps Neutral	U _b d	B Phase DG
U _{LL} E	Voltage line to line EB	U _b d	B Phase DG
U _L n _E	Voltage line to Neutral EB	U	Watts Total
F _E	Frequency EB	U _r	Watts R Phase
r _y E	Voltage RY Phase EB	U _y	Watts Y Phase
y _b E	Voltage YB Phase EB	U _b	Watts B Phase
b _r E	Voltage BR Phase EB	U _R	Total VA
U _r E	R phase EB	U _R r	VA R Phase
U _y E	Y phase EB	U _R y	VA Y Phase
U _b E	B Phase EB	U _R b	VA B Phase
U _b E	B Phase EB	P _F	Power Factor
A _r	Amps R Phase	P _F r	Power Factor R Phase
A _y	Amps Y Phase	P _F y	Power Factor Y Phase
A _b	Amps B Phase	P _F b	Power Factor B Phase
r _y d	Voltage RY Phase DG		

5. WIRING DIAGRAM

a) EB 3 Phase & DG 3 Phase (M300)



b) EB 3 Phase & DG 1 Phase (M300 & M330)

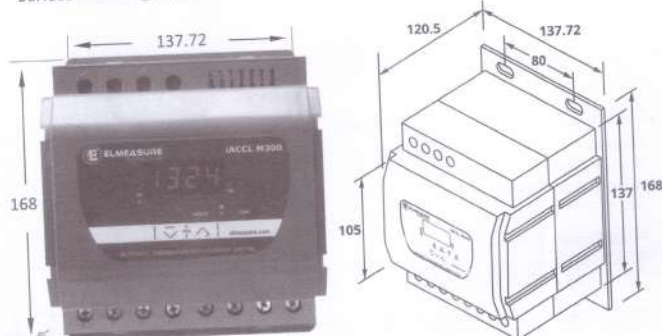


Note: DG Output available only in R Phase & Neutral

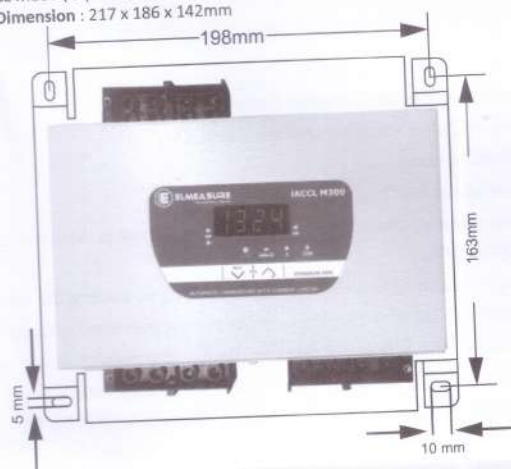
! Appropriate copper wire and lugs to be used. If lugs is not used, strands can stand out and short the terminal which will not be under warranty.

6. MECHANICAL SPECIFICATION:

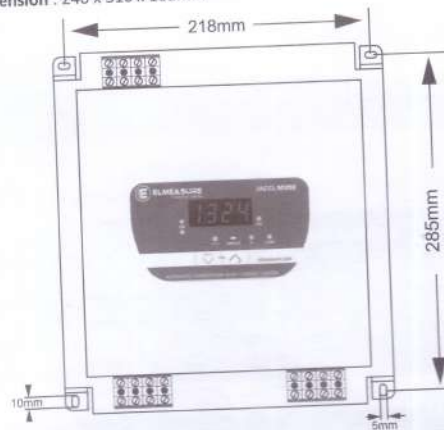
a) iACCL M300, M330 (3phase 40A & 63A rating)
Surface Mounting Outer Dimension : 168 x 137.72 x 120.5mm



b) iACCL M300 (3 phase, 63A & 80A Rating): Surface Mounting
Outer Dimension : 217 x 186 x 142mm



c) iACCL M300 (3 phase, 100A & 125A Rating): Surface Mounting
Outer Dimension : 240 x 310 x 182mm



INFORMATION

Manufacturer assumes no responsibility for a hazard or damage caused by incorrect or non-application of any of the instructions mentioned herein. ELMEASURE shall not be liable for any consequential or resulting injury or for loss, damage or expense directly or indirectly from the use of this product under any circumstances.

ELMEASURE does not claim any responsibility for the damage caused by using the product directly or indirectly as sufficient care has been taken to provide all information regarding the product. The user is advised to use according to the operating instructions, professional practices, wiring rules, codes, safety regulations applicable to the given installation.

CAUTION

! During normal operation of this instrument, hazardous voltages are present at the rear terminals, which may cause injury or death. Installation, disconnection or removal of the meter should be carried out only by qualified, trained personnel, after de-energizing connected circuit. The warranty will become void incase the seal is broken, improper installation as well as improper grounding.