

## PROGRAMMING GUIDE



### Alpha + / $\mu$ Alpha + Series

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#### 1. UNIQUE FEATURES













- True RMS
- STAR (Wye)/ Delta Programmable / Single Phase
- PT ratio / CT ratio programmable including CT secondary
- Universal Auxiliary (80-300 V AC) supply.
- Universal Voltage Input (80 - 550 VAC) and
- Current Secondary (0.5A to 6A).
- Clearance & creepage distance meets UL61010 standard.
- Compact size and light Weight.













#### 2. KEY FUNCTIONS

Key	In SET (Programming) mode	In RUN (Measurement) mode
Right/UP 	To select the value and to accept the value	To scroll the pages to look at different parameters
DOWN 	To edit the value/system type downward in edit mode and scroll through the parameters.	To scroll down the pages to look at different parameters

#### 3. ENTERING CONFIGURATION (SETUP) MODE

Follow the following steps to configure the setup parameters through front panel keys.

Step	Actions	Display Reads	Range/Options/Comments
1	Press RIGHT & DOWN keys together to enter SETUP  	0000 (Password) with first digit "0" blinking.	
2	Press Down key till the first digit read "1". 	1000 with first digit "1" blinking.	Default is 1000
3	Press the DOWN key. 	ELEn displays now.	ELE Element (Wiring) (Applicable only in 3A, 3V)
4	Press the RIGHT key 	SEAr	StAr means STAR system. Meter would display the last set up value/ system.
5	Press the RIGHT key 	SEAr blinking.	Now other options can be chosen by using RIGHT & DOWN keys.  
6	Press the DOWN key 	SEAr	Options : StAr (Star/ Wye), dELt (Delta), Single phase (Selected option is displayed)
7	Press RIGHT key to set the system type required. 	SEAr	Blinking stops. Displays steady system type.
8	Press DOWN key to go to next page. 	Pt.Pr Ct.Pr	Pt.Pr (PT Primary - In case of Voltmeter). Ct.Pr (CT Primary - In case of Ammeter)
9	Press the RIGHT key to set the PT primary/CT Primary 	415.0 5.000	415.0 / 5.000 Indicates the last set value. Programmable range: 100V - 999kV (For Voltmeters) 0.5A to 99kA (For Ammeters)

10	Press RIGHT key to edit value 	415.0 5.000	Editable digit blinks.	
11	Press DOWN key to change 	415.0 5.000	Changed digit blinks.	Select the required value.
12	Press RIGHT key to accept 	415.0 5.000	Blinking digit stabilizes.	Follow the same procedure to set 4 digits.
13	Press DOWN key 	415.0 5.000	Decimal point blinks	Set Kilo while setting decimal point. Eg : To set 11.00kV. Set 4 digits (1100) as explained above. Press DOWN key to place Decimal point while Kilo LED comes ON. 
14	Press Down key to go to next parameter. 	Pt.SE Ct.SE	Displays Pt.SE / Ct.SE	Pt.SE (In case of Voltmeter) Ct.SE (In case of Ammeter)
15	Press the RIGHT Key to edit 	415.0 5.000	415.0 / 5.000 Follow the procedure as per Sl. No. 9 to 13.	PT secondary or CT secondary
16	Press DOWN key to go to next parameter. 	5R4Y		To save the setting mode. Option : Y(YES) / n(NO)  
17	Press RIGHT key to memorize the changes done. 	0000	Display returns to Home page	can be selected by using RIGHT & DOWN keys 

Once the required parameter is programmed, to reach SAVE page directly, press the down key continuously up to it reaches SAVE page.

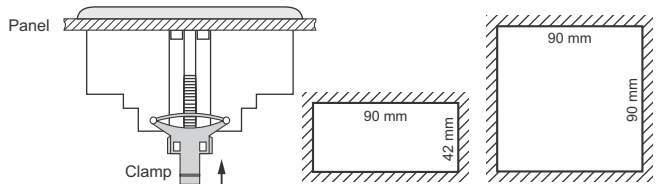
#### 4. LED INDICATION

LED Status	Alpha+3A / $\mu$ Alpha+ 3A - Meaning	LED Status	Alpha+3V / $\mu$ Alpha+ 3V - Meaning
R - ON	R Phase Amps	R - ON	R Phase Voltage(VLN)
Y - ON	Y Phase Amps	Y - ON	Y Phase Voltage (VLN)
B - ON	B Phase Amps	B - ON	B Phase Voltage (VLN)
K - ON	Kilo	Hz	Frequency
RYB-ON	Amps Average Value	RY - ON	R-Y Voltage (VLN)
LED Status	$\mu$ Alpha+A/V/Hz/ Alpha+ A/V/Hz - Meaning	YB - ON	Y-B Voltage (VLN)
		BR - ON	B-R Voltage (VLN)
		K - ON	Kilo
K - ON	Kilo	RYB - ON	VLL Average Value
		RYB - OFF	VLN Average Value

#### 5. Mechanical Specification:

Dimension Bezel: 96 x 96 mm (Depth 50mm behind Bezel)  
96 x 48 mm (Depth 45mm behind Bezel)

Panel Cutout:  
90<sup>+2</sup> x 90<sup>+2</sup> mm  
90<sup>+2</sup> x 42<sup>+2</sup> mm



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