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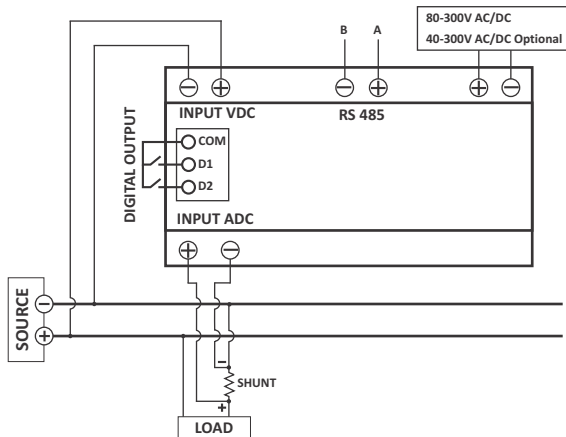
PROGRAMMING GUIDE ALPHA + DC (VDC & ADC)

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1. FEATURES

- Universal Auxiliary supply (80-300V AC/DC).
- Parameters V(VDC) & A(ADC).
- 1 row 4 digit display.
- User configurable (Editable) password.
- Auto-scaling of kilo decimal point.

2. WIRING DIAGRAM - Alpha Plus DC (VDC & ADC)



3. KEY FUNCTIONS

Key	In SET (Programming) mode	In RUN (Measurement) mode
	To select the value and accept the value (it act as a Right key in programming mode)	To scroll pages to look at different parameters.
	To edit the value/system type downward in edit mode and scroll through the parameters.	To scroll pages to look at different parameters

4. ENTERING CONFIGURATION (SETUP) MODE

Step	Actions	Display Reads	Range/Options/Comments
1	Press RIGHT & DOWN keys together to enter SETUP	0000 first digit "0" blinking	
2	Press DOWN key to decrement the first digit to "9" sequentially come to digit "1".	1000 with "1" blinking.	If any other password is already set press RIGHT and DOWN key to reach the right password
3	Press DOWN key	P.P.r.i (PT Primary) Only for VDC C.P.r.i (CT Primary) (Only for ADC)	
4	Press RIGHT key to view PT primary value / CT primary value	4800 default/factory set (for VDC) 7500 default/factory set (for ADC)	Range:0.100 to 999.9KV (for VDC) Range:0.100 to 999.9kA (for ADC)

5	Press RIGHT key to set PT Primary/ CT Primary value	4800 7500 First digit blinking can be edited using DOWN key.	
6	Press RIGHT key to accept the edited value for first digit.	4800 Second digit blinking, can be edited using DOWN key. Press RIGHT key to accept the edited value. Continue the same method till fourth digit.	
7	Press RIGHT key to accept the value.	4800 Decimal point blinking. Can be set at appropriate location using DOWN key. Ascertain the correct scale (Kilo) is selected. Kilo is represented by Letter K. Press RIGHT key to accept the edited value.	Eg: To set 61.00KV Set first four digits (6100) as explained above keep pressing DOWN key to place decimal point at appropriate location
8	Press DOWN key	OFFS C.1.S.U OFFS / C.1.S.U (Offset/ Channel 1 Shunt value)	OFFS in case of ADC. C.1.S.U in case of VDC

9	Press RIGHT key to view the option	0.t.FS 75.00 0.t.FS for ADC 75.00 for VDC (Zero to Full scale/ 75mV)	For ADC: Options-0.t.FS (Zero to Full scale) & 4.t.FS (4mA to Full scale). For VDC: Range : 50mV to 75mV The options can be changed by pressing DOWN key.
10	Press DOWN key	00.1P Defines Digital output 1 Parameter)	
11	Press RIGHT key to view digital output options	056L	
12	Press RIGHT key to go for options	056L Parameter blinks. eg: Un.V (Under Volts) (For VDC)/ Un.A (Under Amps) (For ADC). Blinking parameter can be edited using DOWN key. Press RIGHT key to accept the edited option.	Options: For VDC: dSbL/ Un.V (Under Volts) / OU.V (Over Volts) For ADC: dSbL/ Un.A (Under Amps) / OU.A (Over Amps).
13	Press DOWN key	00.1L	Defines the threshold limit
14	Press the RIGHT Key to view the value	6000 (Default threshold value)	

15	Press again RIGHT key to edit the value		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> eg: 60.00 First digit blinking can be edited using DOWN key. Press RIGHT key to accept the edited value. Continue the same method till fourth digit. Decimal point blinking can be set at appropriate location using DOWN key and again press RIGHT key to accept.	Range: 1.000 to 999.9K
16	Press DOWN key		(Defines Digital output 2)	
17	Press RIGHT key to view digital output options			
18	Press RIGHT key to go for options		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Options : For VDC: dSbL/ Un.V (Under Volts) / OU.V(Over Volts) For ADC: dSbL/ Un.A (Under Amps) / OU.A(Over Amps)	
19	Press DOWN key			Defines the threshold limit
20	Press the RIGHT Key to view value		(Default threshold value)	

5. The List of parameters can be configured and the range is given below

Sl.No.	Parameter	Default setup	Range / Options
1	PT Primary (P.Pri) (Only for VDC)	48.00	0.100 to 999.9KV (Only for VDC)
2	CT Primary (C.Pri) (Only for ADC)	75.00	0.100 to 999.9KA (Only for ADC)
3	Offset(OFFS) - for ADC C.1.S.V - for VDC	0.t.FS/ 75.00	0.t.FS/4.t.FS - for ADC 50mV to 75mV - for VDC
4	1st Digital Output parameter (dO1.P)	dSbL	For VDC - Over V, Under V & dSbL For ADC - Over A, Under A & dSbL
5	1st Digital Output threshold Value (dO1.t)	60.00	1.000 to 999.9K
6	2nd Digital Output parameter (dO2.P)	dSbL	For VDC - Over V, Under V & dSbL For ADC - Over A, Under A & dSbL
7	2nd Digital Output threshold Value (dO2.t)	24.00	1.000 to 999.9K
8	Digital Delay	3.000	1.000 to 180.0 Sec
9	Baud rate (bAUd)	9600	1200 to 19.2k
10	Parity (Prty)	Even	1.000 to 180.0 Sec
11	Device Id (dEV.Id)	1.000	1.000 to 247.0
12	Password (PWd)	1000	1000 to 9999

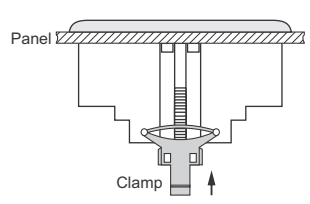
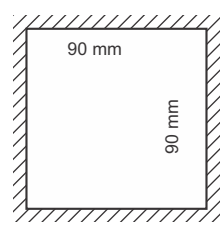
21	Press again RIGHT key to edit the value		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> eg: 24.00 First digit blinking can be edited using DOWN key. Press RIGHT key to accept the edited value. Continue the same method till fourth digit. Decimal point blinking can be set at appropriate location using DOWN key and again press RIGHT key to accept.	Range: 1.000 to 999.9K
22	Press DOWN key		(Digital Delay)	
23	Press RIGHT Key to view the value		(Default)	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> First digit blinking can be edited using DOWN key. Press RIGHT key to accept the edited value. Continue the same method till fourth digit. . Decimal point blinking can be set at appropriate location using DOWN key.
24	Press DOWN key		(baud rate) communication speed.	Defines the baud rate.
25	Press RIGHT key to view value		default /factory set	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Option:1200, 2400, 4800, 9600, 19.20k. Press DOWN & RIGHT key to set the required value.

6. LED INDICATION

LED Status	Meaning	LED Status	Meaning	LED Status	Meaning
-	Minus		Communication	K	Kilo

7. Mechanical Specification:

Dimension Bezel: 96 x 96 mm (Depth 50mm behind Bezel) Panel Cutout: 90⁺²₋₀ x 90⁺²₋₀ mm



26	Press DOWN key			Internal communication error check
27	Press RIGHT key to view option		default /factory set	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> EUEn (even)/odd (odd)/no (no parity) The options can be changed by pressing DOWN key. Press RIGHT key to accept the edited option.
28	Press DOWN key		(device ID)	Defines the (ID) communications
29	Press RIGHT key to view the value			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Identification number (1 to 247). Press DOWN & RIGHT key to set the required value.
30	Press DOWN key		(Password user definable).	CAUTION: memorize the Password. Use the same Password for next time. Instruments will reject other Passwords.
31	Press RIGHT key to view password			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Range: 1000-9999. CAUTION: Password can be reset only at the factory. Press DOWN & RIGHT key to set the required value.
32	Press DOWN key		blinking.	If "n"(no) is selected then Meter enters into RUN mode without affecting any edited Values in the setup
33	Press RIGHT key to store the changes			Display returns to Run mode.

Once the required parameter is programmed press the DOWN key continuously till it reaches SAVE page directly.