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## User Manual

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PG/ATSC/V1/0820

### ATS Controller C40 | M40



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## 1. FEATURES

- Intelligent Micro-processor automatic transfer switch controller.
- Configurable timer for generator start, transfer delay, restore delay and generator cooling time.
- Programmable 1phase/3phase healthy selection for primary source.
- Reliable and field proven mechanism can provide you under voltage and overvoltage protection for your power sources.
- Monitor and displays VLL, VLN and Hz for Source I & Source II (C40).
- Monitor and displays A, KVA and KVAh for Source I & Source II (M40).
- RS485 and add-on TC-IP Ethernet Gateway.
- Digital input relay for fire alarm or other inputs of standby generator.
- Optional built-in AC Power Supply of 80-300 V AC taken from R Phase.

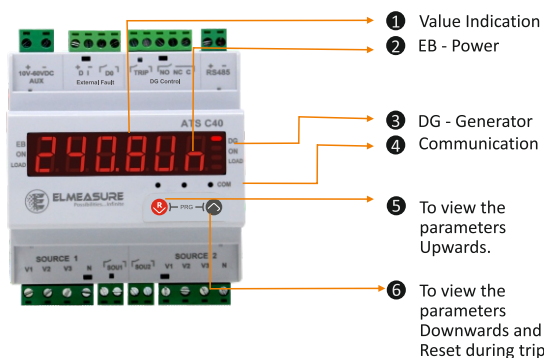
### 3.3 Clear Mode :

Press <b>Up</b> key	Display shows Clr.n. (with 'n' blinking) press <b>Down</b> key to change the options to 'Y' or 'n'.	Option : (YES)/(NO) 'y' (for clearing) 'n' (for not clearing)
Press <b>Up</b> key	Displays xxxx (Clear Mode ends here)	

### 3.4 Display

Programming Parameter	Default	Option/Range
VA selection (UA) (vector harmonics)	VECHUA	Vector Harmonic / Vector / Arithmetic
Baud rate (ba)	9600ba	2400 to 19.2k
Parity (Pr)	EVENPr	Even/ no/ Odd
Device Id (dU.)	1000dU	1.000 to 247.0
Password (PW)	----PY	1000 to 9999

## 2. KEY & LED INDICATION



Energy (EN)	COUNEN	(rESL / COUN)
Energy Selection(ES)	Wh ES	Wh/VAh
EB/DG Under voltage(VL)	1800UL	180V to 210V
EB/DG Over voltage(VH)	2600UH	240V to 270V
DG max current limit(dA)	4000rA	40A Default (Field programmable)
EB max current limit(EA)	4000rA	40A Default (Field programmable)
Current Unbalance	5000rU	10 to 90%
Generator start	EnbLLE	enable/disable
Generator start time	1000CL	3 to 9999
Transfer delay	5000CL	3 to 250sec
cooling time	3000CL	3 to 600sec
Restore delay	5000CL	1 to 150sec

## 3. PROGRAMMING MODE

### 3.1 Programming Keys



To select / Edit & save Value



To decrement value

### 3.2 Setup Procedure

Press **Up** + **Down** to enter setup mode.  
Enter Password (default 1000) blinking of digit indicates Edit is possible.  
Press **Down** to decrement value from 9 to 1.  
Press **Up** 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 **Down** to view and press **Up** to edit the parameter.  
Press **Down** to decrement values or to select from available options.  
Press **Up** to save the value of the parameter.  
Press **Down** to edit next till end of last parameter and parameter display screen will prompt **SAVE** display reads **Y** (YES).  
Press **Down** to change to **n** (NO).  
Press **Up** to save.

Source parity	ScL1SP	S1/S2*
C1 Cycle time (C1)	7000C1	6 to 150Sec*
C2 Cycle time (C2)	1500C2	6 to 150Sec*
C3 Cycle time (C3)	3000C3	6 to 150Sec*
C4 Cycle time (C4)	6000C4	6 to 150Sec*
No. of ON/OFF cycles	5000CL	5 to 10 Cycles
DG Phase Selection	3Ph S2	3.ph/1.ph DG
Delay Time	ALL.3.dE	0 to 180sec
EB Phase Selection	ALL.5.1	ALL.3./Any.1

Note: \*Parameters are for C40 model only.

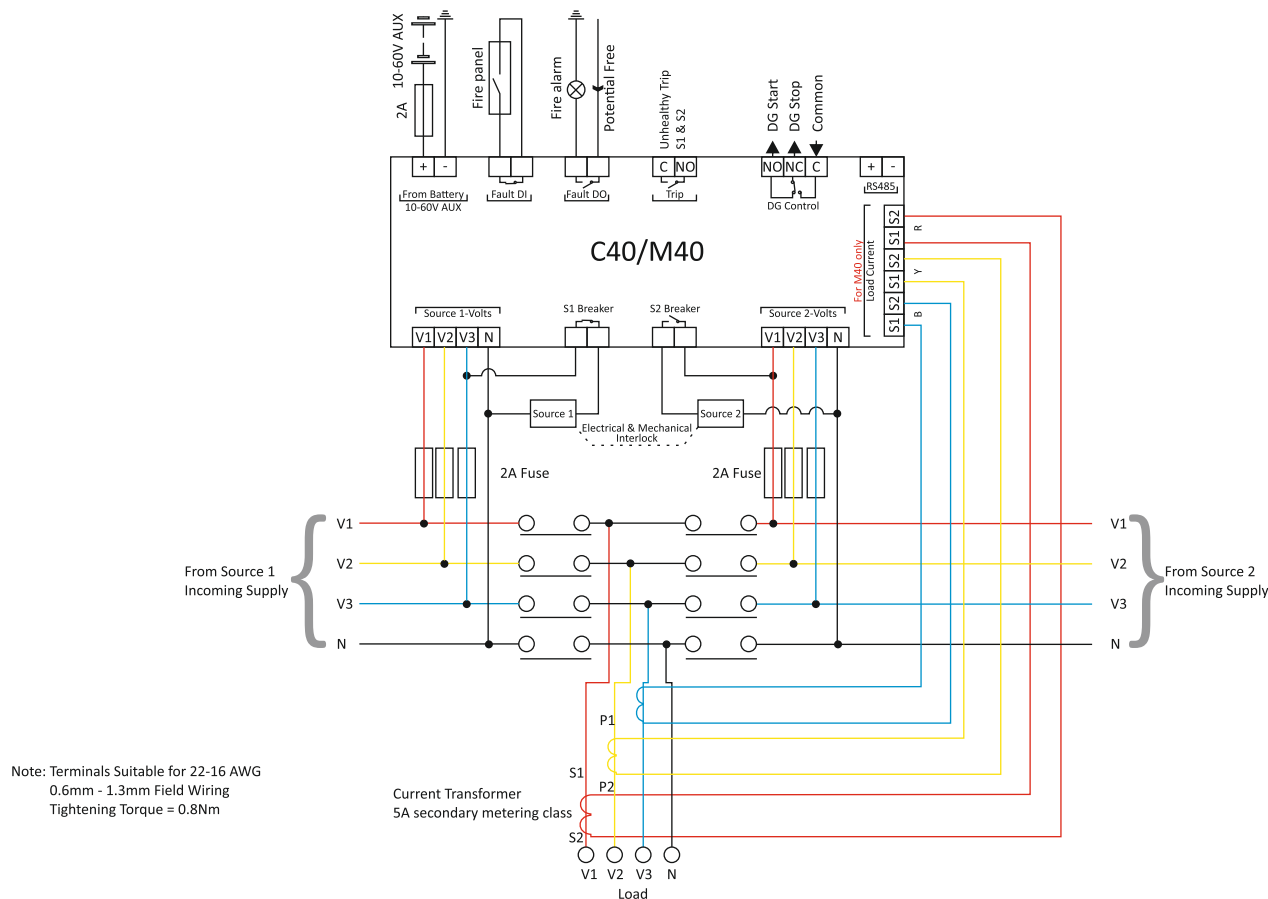
### 3.4 Enabling and Disabling Auto Scrolling

Press **Down** for 5 Secs. Display shows: **EnbLrU** Again press any key to disable. Display shows: **d5bLrU**

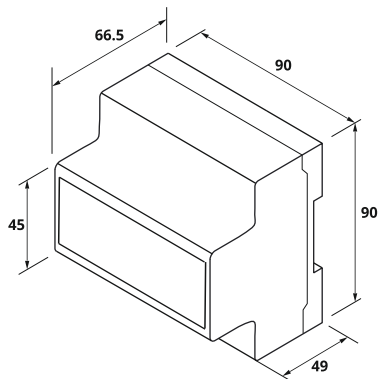


#### 4. TYPICAL WIRING DIAGRAM

### ATS Controller C40/M40 Typical Circuit Diagram for ATS Motorized/ Contactor Based/2 Position Solenoid



#### 5. MECHANICAL SPECIFICATION:



#### 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.