QUICK START GUIDE

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IMPORTANT Settings & Parameters should only be changed during planned maintenance periods or when a maintained supply is not critical as the control unit will reset and momentarily open & close the contactors causing loss of supply.

FOR FULL INSTRUCTIONS ON CHANGING PARAMETERS PLEASE REFER TO THE MERTECH ATS INSTRUCTION MANUAL.

MAIN PARAMETERS

1) Application Type

The system can be set up to work in the following modes:

Utility (Line 1) - Utility (Line 2)
Utility (Line 1) - Generator (Line 2)
Generator (Line 1) - Generator (Line 2)

To select the correct line supply source press:

a)   Switch the control unit in to Off Mode
         > Hold the 'Off ' Key for 3 seconds
b)   Enter Main Menu
         >Press both 'Menu' Keys together
c)   Enter Setup Menu
         >Navigate to 'Setup' Menu using '+/-' Keys
         >Press Tick button
d)   Enter Load Changeover Menu
         >Navigate to Slot M05 Load Changeover by pressing Down Arrow key
         Press Tick button
e)   Select parameter P05.01 Application Type
         Press Tick button
f)   >Select required utility range U-G, U-U, G-G by pressing Arrow Keys
         Press Tick button

At End of activity press:
>Reset to exit to digital output menu
>Reset again to exit to setup menu
Wait for system to reset (approx 20s)
>Auto for 3 seconds to return to Automatic ATS mode

2) Wiring Mode

The system can be set in the following wiring modes:

    L1-L2-L3-N
    L1-L2-L3
    L1-N-2
    L1-N

To select the correct wiring supply press:

a)   Switch the control unit in to Off Mode
      > Hold the 'Off ' Key for 3 seconds
b)   Enter Main Menu
      >Press both 'Menu' Keys together
c)   Enter Setup Menu
      >Navigate to 'Setup' Menu using '+/-' Keys
      >Press Tick button

d)   Enter General Menu
      >Navigate to Slot M02 Load Changeover by pressing Down Arrow key
      Press Tick button
e)   Select parameter P02.06 Wiring Mode
      Press Tick button
f)   >Select required wiring mode by pressing Arrow Keys
      Press Tick button

At End of activity press:
>Reset to exit to digital output menu
>Reset again to exit to setup menu
Wait for system to reset (approx 20s)
>Auto for 3 seconds to return to Automatic ATS mode

3) Setting Language

The system can be set up to in various Languages:

To select the desired language press:

a)   Switch the control unit in to Off Mode
      > Hold the 'Off ' Key for 3 seconds

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b) Enter Main Menu
   >Press both 'Menu' Keys together
c) Enter Setup Menu
   >Navigate to 'Setup' Menu using '+/-' Keys
   >Press Tick button
d) Enter Load Changeover Menu
   >Navigate to Slot M01 'Utility' by pressing Arrow keys
   Press Tick button
e) Select parameter P01.01 'Language'
   Press Tick button
f) >Select required Language by pressing Arrow Keys
   Press Tick button

At End of activity press:
>Reset to exit to digital output menu
>Reset again to exit to setup menu
Wait for system to reset (approx 20s)
>Auto for 3 seconds to return to Automatic ATS mode

SETUP OF OUTPUT SIGNALS

To access settings for digital outputs

a) Switch the control unit in to Off Mode
   > Hold the 'Off ' Key for 3 seconds
b) Enter Main Menu
   >Press both 'Menu' Keys together
c) Enter Setup Menu
   >Navigate to 'Setup' Menu using '+/-' Keys
   >Press Tick button
d) Enter Digital Outputs Menu
   >Navigate to Slot M11 by pressing Down Arrow key
   Press Tick button
e) Select Output 1 - Line 1 Available
   >Navigate to slot 'P11.01 Out 1 Line Vol' by pressing Arrow Keys
   Press Tick button
f) Adjust Settings for Output 1 as follows:

4) Output 1 - Line 1 Available

A volt free indication contact for clients use indicating the availability of the Line 1 supply.
An open contact indicates Supply not available and a closed contact indicates the supply is
available. Wired to terminals S1, S2.

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i)   >Navigate to P11.01 Line 1 Voltage Output Function
      >Press Tick button
      > Navigate to P11.01.01 and set 'Line Voltage OK' using +/- arrow keys
      >Press Tick button

ii)   >Navigate to P11.01.02 Channel NR
      >Press Tick button
      > Navigate & set to '1'
      >Press Tick button

iii) >Navigate to P11.01.03 Output Type
      >Press Tick button
      > Navigate & set to 'NOR'
      >Press Tick button

At End of activity press:
>Reset to exit to digital output menu
>Reset twice more to exit to setup menu
Wait for system to reset (approx 20s)
>Auto for 3 seconds to return to Automatic ATS mode

5)   Output 2 - Line 2 Available

A volt free indication contact for clients use indicating the availability of the Line 2 supply.
An open contact indicates Supply not available and a closed contact indicates the supply is
available. Wired to terminals S3, S4.

First Follow steps 'a to e' at the beginning of the 'Setup Outputs' chapter.
Then Adjust Settings for Output 2 as follows:

i)   >Navigate to P11.02 Line 1 Voltage Output Function
      >Press Tick button
      > Navigate & set to P11.02.01 Line Voltage OK
      >Press Tick button

ii)   >Navigate to P11.02.02 Channel NR
      >Press Tick button
      > Navigate & set to '1'
      >Press Tick button

iii) >Navigate to P11.02.03 Output Type
      >Press Tick button
      > Navigate & set to 'NOR'
      >Press Tick button

At End of activity press:
>Reset to exit to digital output menu
>Reset twice more to exit to setup menu
Wait for system to reset (approx 20s)
>Auto for 3 seconds to return to Automatic ATS mode

6)   Output 3 - Start / Stop Generator Signal

A volt free changeover contact for clients use to signal the Generator to start & stop as required by the control program. Wired to terminals S5, S6, S7.
A changeover contact is provided with 1 n/o & 1 n/c contact to be used as required by the generator control panel.

First Follow steps 'a to e' at the beginning of the 'Setup Outputs' chapter.
Then Adjust Settings for Output 3 as follows:

i)   >Navigate to P11.03 Out 3 Control Generator
     >Press Tick button
     > Navigate & set P11.03.01 Control Generator 2
     >Press Tick button

ii)   >Navigate to P11.03.02 Channel NR
      >Press Tick button
      > Navigate & set to '1'
      >Press Tick button

iii)   >Navigate to P11.03.03 Output Type
       >Press Tick button
       > Navigate & set to 'NOR'
       >Press Tick button

At End of activity press:
>Reset to exit to digital output menu
>Reset twice more to exit to setup menu
Wait for system to reset (approx 20s)
>Auto for 3 seconds to return to Automatic ATS mode

7)   Output 4 - Load On Line 1

A volt free indication contact of the K1 Line 1 contactor, This is a N/O contact so when the contactor is open and the Line 1 supply is not on load it is open and when the contactor is closed and on load the contact is closed. Wired to terminals S8, S9.

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8)   Output 5 - Load On Line 2

A volt free indication contact of the K2 Line 2 contactor, This is a N/O contact so when the contactor is open and the Line 2 supply is not on load it is open and when the contactor is closed and on load the contact is closed. Wired to terminals S10, S11.

TRANSFER OPTION

9)   Inhibit Auto return to Line 1

a)   Switch the control unit in to Off Mode
      > Hold the 'Off ' Key for 3 seconds
b)   Enter Main Menu
      >Press both 'Menu' Keys together
c)   Enter Setup Menu
      >Navigate to 'Setup' Menu using '+/-' Keys
      >Press Tick button
d)   Adjust Settings as follows:

a)   >Navigate to M05 Changeover
      >Press Tick button
b)   >Navigate to P05.12 Inhibit Auto Return PR. Line
      >Press Tick button
c)   Change option to On
      >Press Tick button
d)   >Press Off / Reset to exit twice
e)   Return system to Auto mode by holding AUT

10)   Initiate Manual Return to Line 1

a)   >Hold the Man Button
b)   >Press the Man button again to highlight Brk (contactor) 1
c)   >Hold the Up arrow key (Lie 2 will open and line 1 will close)
d)   >Hold Aut key to return to Auto

SETUP OF TIMERS

To access settings for various timers

a)   Switch the control unit in to Off Mode
        > Hold the 'Off ' Key for 3 seconds
b)   Enter Main Menu
        >Press both 'Menu' Keys together
c)   Enter Setup Menu
        >Navigate to 'Setup' Menu using '+/-' Keys
        >Press Tick button
d)   Adjust Settings as follows:

11)   Mains Return Timer

When the Line 1 supply returns (and on initial supply on) the system will wait for a time period before closing the K1 (Line 1) contactor. This is generally used to ensure a stable supply is present before switching.

a)   >Navigate to M06 Line 1 control
        >Press Tick button
b)   >Navigate to P06.08 Presence delay Line 2 OK
        >Press Tick button
c)   Change time as required (default 5s)
        >Press Tick button

12)   Delay On Changeover Timer

This timer allows a delay to be set in changing over between the Line 1 (K1) and the Line 2 (K2) supplies / contactors.

a)   >Navigate to M05 Changeover
        >Press Tick button
b)   >Navigate to P05.03 Line 1-2 Interlock
        >Press Tick button
c)   Change time as required (default 6s)
        >Press Tick button

13)   Delay On Start Timer (DOST)

A 'Delay on Supply off' timer is provided and associated with the Generator Start / Stop signal This is adjustable from 0 -60 Seconds and provides a timed delay on the start signal, on Terminals S5, S6, S7.

Note this is a separate timer and is not programmable from the ATS Controller, adjustments are made on the actual timer.

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14) Generator Cool Down Timer

Upon a return to the primary Line 1 supply this timer allows the Line 2 supply, if using a Generator to run on for a time period prior to removing the start signal.

    a) >Navigate to M06 Line 1 control
    >Press Tick button
    b) >Navigate to P06.20 Cooling Time
    >Press Tick button
    c) Change time as required (default 120s)
    >Press Tick button
    At End of activity press
    >Reset to exit to digital output menu
    >Reset again to exit to setup menu
    Wait for system to reset (approx 20s)
    >Auto for 3 seconds to return to Automatic ATS mode

SETUP OF CX02 Wi-Fi DONGLE

FOR FULL INSTRUCTIONS ON SETUP & USE PLEASE REFER TO THE MERTECH ATS INSTRUCTION MANUAL.

15) Quick Setup guide for connection of Wi-Fi Dongle

a) Ensure CX02 Dongle is fully charged

b) Insert CX02 Dongle in to the ATL 600 Changeover unit

c) Press and hold the power button on the CXO2 Dongle until the LHS green light is lit

d) To enter the setup mode of the CXO2 Dongle press the power button on the CX02 3 times rapidly, the CX02 menu will appear on the display of the ATL600 unit. From within this menu the program can be saved and transferred between the ATL600 and the CX02 Dongle.

e) To connect to the ATL600 via Wi-Fi on your mobile device follow these steps.

i) Install the Lovatto Sam1 app from the app store of your device
ii) Change the Wi-Fi on your device to connect to the CX02-2D Network
iii) Launch the Lovatto Sam1 application
iv) The RHS light on the CX02 Dongle will flash green signalling the devices are communicating.

f) You will now be able to view and change certain parameters of the ATL600 directly on your mobile device, please refer to the full instruction manual for detailed instructions.