UNIGEN Plus

February 2007

Procedure to download the complete firmware

Ref. A51Z1

Application note A51 Z1 8 0006 C-En

A51 Z1 8 0006 C-En.doc

Introduction

This procedure will describe the way to download a new firmware in Unigen Plus.

History

- Version A: initial document
- Version B : Add the difference between M109 Unigen Plus and complete Unigen Plus.

Difference

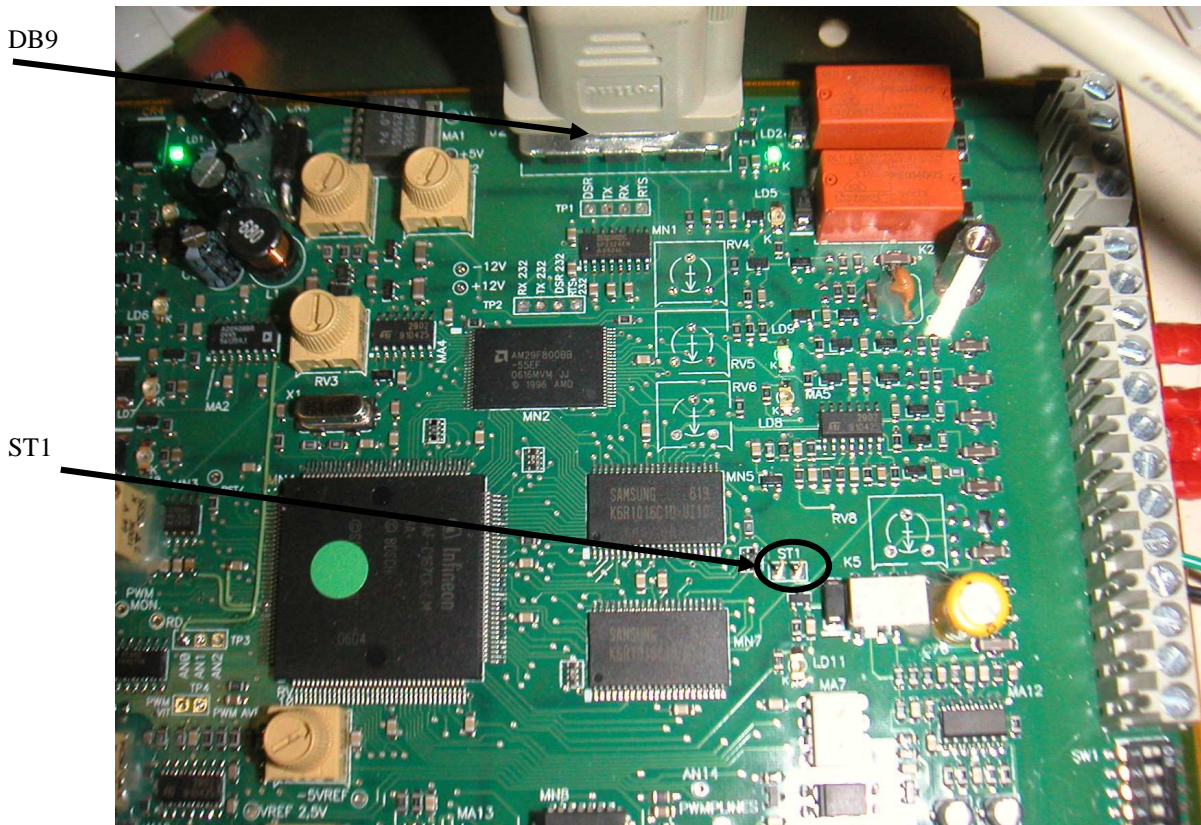| Function	Implementation in M109 and complete
Super Droop	M109 Unigen Plus and Complete Unigen Plus
Paralleling lines	M109 Unigen Plus and Complete Unigen Plus
Mains Paralleled	Only Complete Unigen Plus
Command Mode	Only Complete Unigen Plus
Canbus	Only Complete Unigen Plus
Modbus	Only Complete Unigen Plus
Monitor output : sw4 OFF->0/20mA ON->4/20mA	Only Complete Unigen Plus
Sw5 OFF->relay 'sync ok' closes only when 'sync in' is connected to the 0VDC and conditions are OK. ON-> relay 'sync ok' closes when conditions are ok.	Only Complete Unigen Plus
Sw6 OFF->relay 'sync ok' doesn't close on deadbus. ON-> relay 'sync ok' closes on deadbus.	Only Complete Unigen Plus

Procedure

Tools:
- Computer with Flash-it (Flash-it has to ordered directly to www.hse-electronic.com)
- DB9M/DB9F cable
- 24VDC power supply
- A shunt for the Boot Strap
- Exe file: A51Z0Z1Z2fullV1_17.h86

Procedure:

1. Get off the cover of UNIGEN Plus.
2. Switch on the power.
3. Modem connection.
4. TCPIP connection (http://unigen)
5. password '1'
6. go to **System/A51->PC** / **download A51**
7. Save this file with a text editor in .txt.
8. Switch off the power
9. Put a shunt on ST1. See picture in the following page.

10. Connect the computer (serial port) to UNIGEN with DB9 cable.
11. Connect power supply on terminals 1 (+) and 2 (-) of UNIGEN.
12. Switch on the power.
13. Start Flash-it on the computer.
    13.1.   In "File" window: Select the Exe file '**A51Z0Z1Z2fullV1_17.h86**'
    13.2.   In "Config" window:
            Bus Mode: Autodetect
            Erase mode: **Sector erase**
    13.3.   In "Option" window:
            User serial number generation: check Enable at address **0x001800**
                                            Prefix, example: **4503A**
                                            Number, example: **002**
    13.4.   Then click on "Analysis + Download"
14. When download completed, Flash-it screen becomes green.
15. Switch off the power.
16. Put off the shunt on ST1.
17. See the value of variable '01223' and '01224' in the .txt file.
18. Switch on the power.
19. Modem connection.
20. TCPIP connection (http://unigen)
21. password '1'
22. **configuration** / **modification by variable number** / put **1223** in the box / **save** / put the value you have in the **.txt** file / **save** / **esc**
23. **modification by variable number** / put **1224** in the box / **save**/ put the value you have in the **.txt** file / **save** / **esc**
24. **Esc** / **system** / **flash all parameters** / **flash it**.
25. Switch off the power.
26. Switch on the power.
27. Modem connection.
28. TCPIP connection (http://unigen)
29. password '1'
30. information page
31. See the variable '01223' and '01224' if the value is the same than in the .txt file it's ok if not do from point 22.
32. Switch off the power.