

USER GUIDE

EMS ANALYSER VER 1.0



REVA
The electriCity Car

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Welcome to EMS Analyser!

Get ready to experience the new EMS data down load and analysis tool. Setting up EMS analyser is easy. After you complete the setup wizard, take some time to explore the features on this tool. This guide provides tips and instructions to help you learn the basics quickly.

This tool enables you to work on DC and AC Drive cars.

System requirements

To ensure adequate performance, EMS Analyzer 1.0 has the following minimum and recommended system requirements.

Supported Operating Systems:

Scenario	Target platforms
x32-bit based systems	Microsoft® Windows® 98 Windows 98 Second Edition Microsoft Windows 2000 Professional with SP4 Windows 2000 Server with SP4 Windows 2000 Advanced Server with SP4 Windows 2000 Datacenter Server with SP4 Microsoft Windows XP Professional with SP2 Windows XP Home Edition with SP2 Windows XP Media Center Edition 2002 with SP2 Windows XP Media Center Edition 2004 with SP2 Windows XP Media Center Edition 2005 Windows XP Tablet PC Edition with SP2 Windows XP Starter Edition Microsoft Windows Millennium Edition Microsoft Windows Server™ 2003 Standard Edition Windows Server 2003 Enterprise Edition Windows Server 2003 Datacenter Edition Windows Server 2003 Web Edition Windows Server 2003 R2, Standard Edition Windows Server 2003 R2, Enterprise Edition Windows Server 2003 R2, Datacenter Edition
x64-bit based systems	Windows XP Professional x64 Edition Windows Server 2003, Standard x64 Edition Windows Server 2003, Enterprise x64 Edition Windows Server 2003, Datacenter x64 Edition Windows Server 2003 R2, Standard x64 Edition Windows Server 2003 R2, Enterprise x64 Edition Windows Server 2003 R2, Datacenter x64 Edition
Itanium-based systems	Windows Server 2003 with SP1, Enterprise Edition for Itanium-based Systems Windows Server 2003 with SP1, Datacenter Edition for Itanium-based Systems Windows Server 2003 R2, Enterprise Edition for Itanium-based Systems Windows Server 2003 R2, Datacenter Edition for Itanium-based Systems
.NET Compact Framework	Microsoft Windows Mobile™ for Pocket PC Windows Mobile for Smartphone Microsoft Windows CE

System requirements

Unsupported Operating Systems:

The EMS Analyzer 1.0 cannot be installed on the following operating systems.

Scenario	Operating system
All platforms	Microsoft Windows 95 Microsoft Windows NT® Server Windows NT Workstation Windows Server 2003, Enterprise Edition for Itanium-based Systems Windows Server 2003, Datacenter Edition for Itanium-based Systems

Minimum Software and Hardware Requirements:

Minimum Software

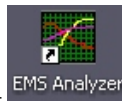
1. Microsoft Internet Explorer 6.0 with Service Pack 1.
2. Microsoft Data Access Components (MDAC) 2.8 for data access applications.
3. Windows Installer version 3.0.
4. MS-Excel 2003

Minimum Hardware

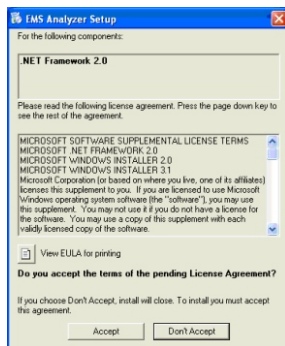
1. Processor - 600 MHz
2. RAM – 128 MB
3. Hard Disk Space – 280 MB for 32-bit and 610 MB for 64-bit

Setup for EMS Analyser 1.0

1. Before you get started, make sure for all system requirements.
2. Now simply insert EMS Analyzer 1.0 CD into the computer.
3. Follow the Windows Installer and it will install the EMS Analyzer 1.0

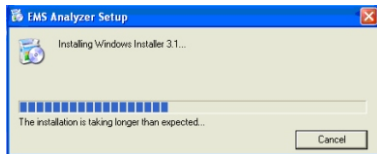
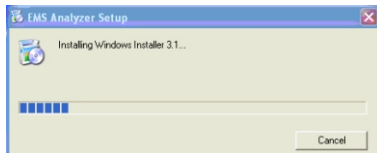
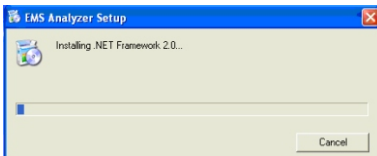
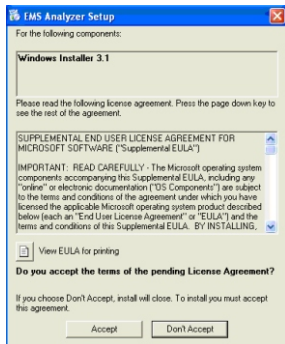


4. Installation can be confirmed with the shortcut at desktop and the folder 'EMS Analyzer' at Programs menu.
5. Net frame 2.0 starts installing, Select Accept



Setup for EMS Analyser 1.0

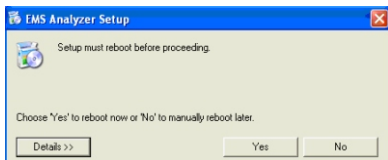
6. Windows installer starts installing, Select Accept



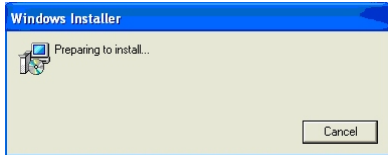
Please wait....

Setup for EMS Analyser 1.0

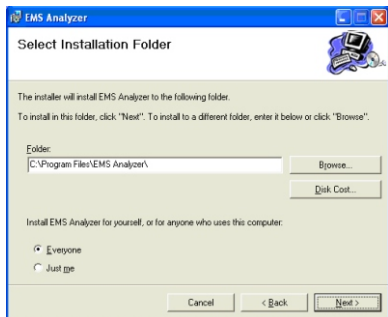
7. Setup must reboot before installing, Select Yes



8. System will restart and prepares to install EMS Analyser 1.0



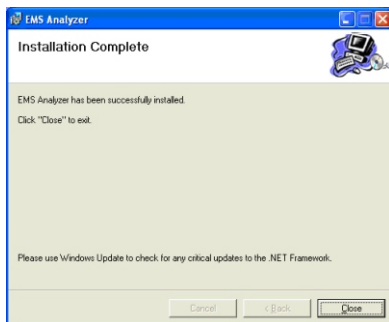
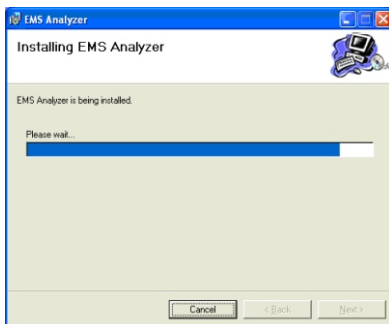
9. Refer to option Everyone and select Next



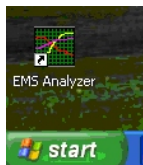
10. On confirm installation dialogue box, select Next

Setup for EMS Analyser 1.0

11. Installation complete dialogue box will appear, select close



12. Look for the below icon for complete installation



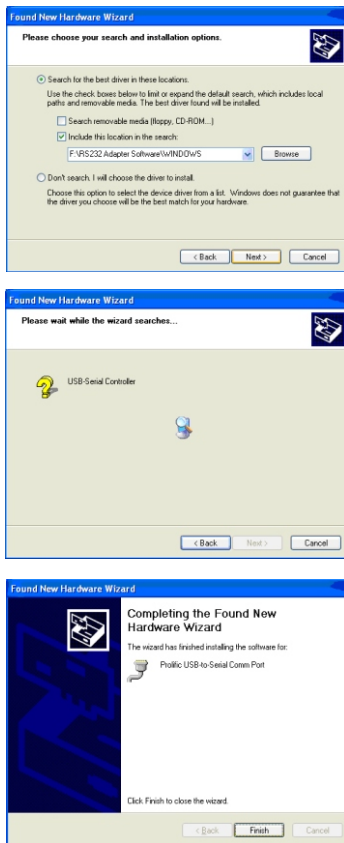
Setup for USB-serial controller

1. Insert the USB-serial controller into the available computer USB slot and wait for the below dialogue box to appear.



2. Select install from a list or specific location (Advanced)

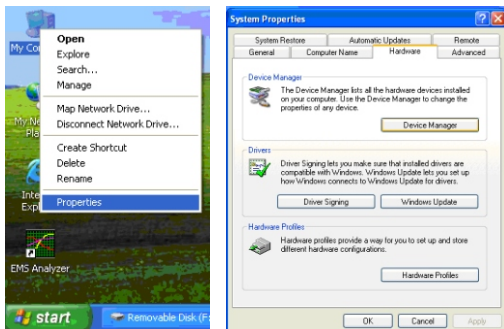
Setup for EMS Analyser 1.0



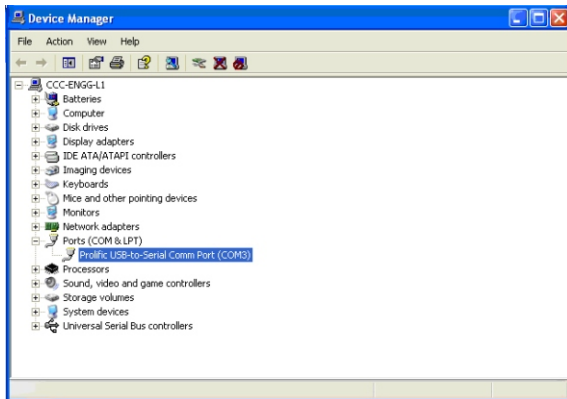
3. Click finish to close the installation wizard. The USB-serial device is Ready to use

Setup for USB-serial controller

USB-serial com selection and setup

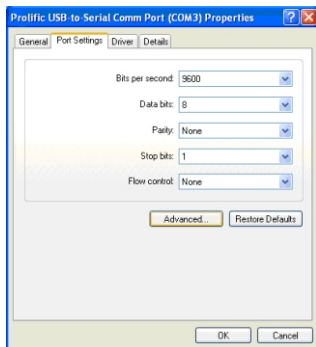
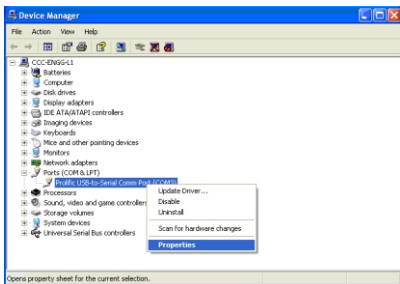


1. Select “My computer” and right click for properties
2. Select Hardware and device manager

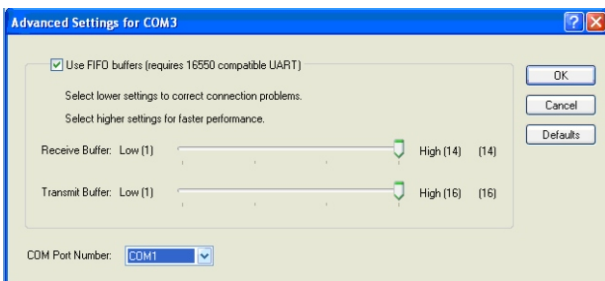


3. Select ports and right click and then select properties

Setup for EMS Analyser 1.0

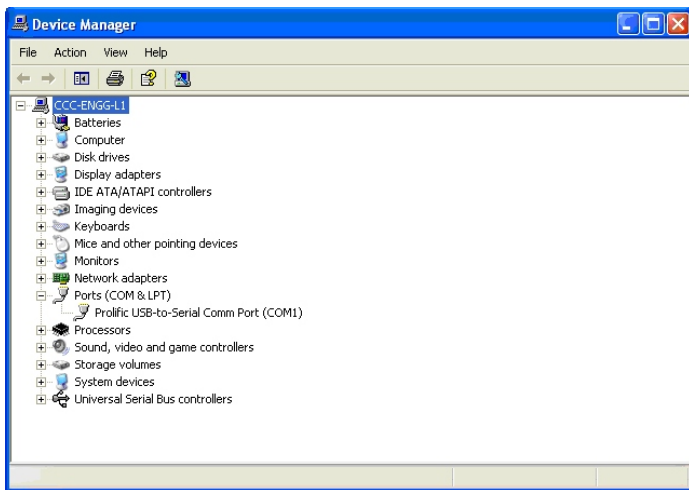


4. Select port settings and “Advanced” and click OK



5. Select COM port number to “COM1”

Setup for USB-serial controller



6. Selected COM1 will be default com when ever you connect the USB-serial controller

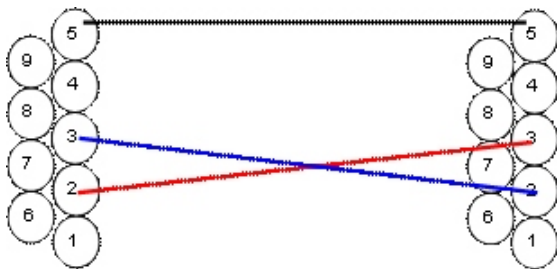
Serial RS232 cable configuration

The cable required will have 9 pin RS232 type and the connection of wires inside will be as shown below

Pin2 - Transfer

Pin3 - Receive

Pin5- Ground

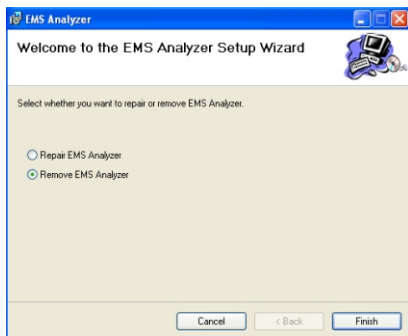


NOTE: In case the cable is cut or damaged the communication will not happen

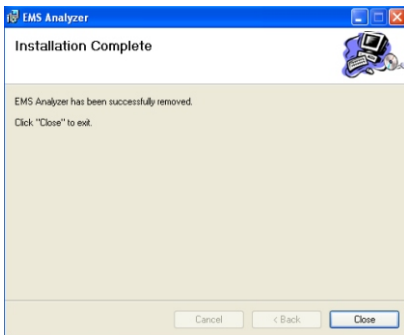
Setup of EMS Analyser (Upgrade software)

This will be used only when there is a revision of the software is released.

Reva will be sending the “EMS Analyzer (Setup).msi” file for removing old version and installing new version



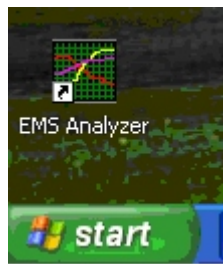
Select “Remove EMS Analyser” and click Finish



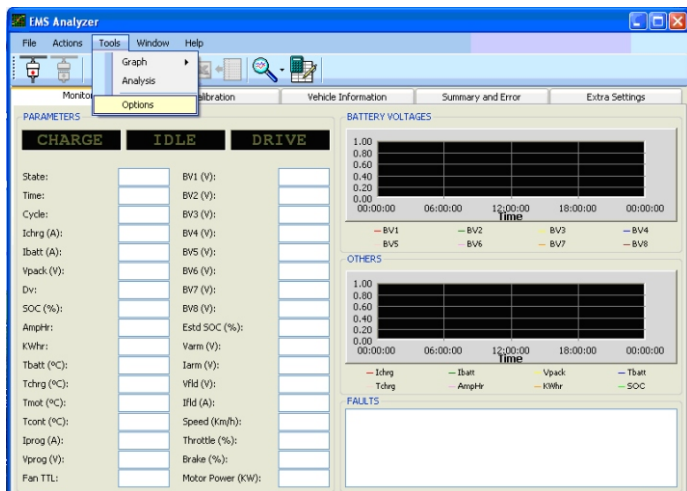
This removes the installation successfully.
Install the new setup file sent to you.

Start using your Analyser tool

Setup options

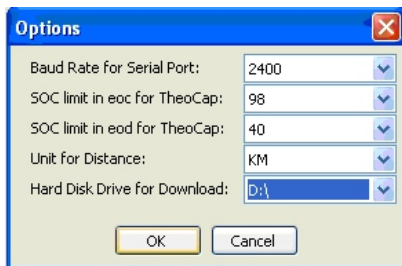


1. Double click the EMS Analyser icon to open the tool



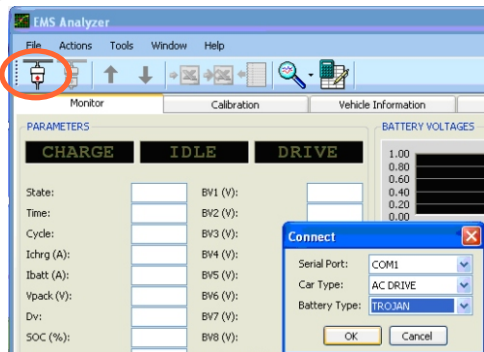
2. Set the options before you begin the data downloading

Start using your Analyser tool



3. Set baud rate to 2400
4. Select Unit of distance
5. Select hard disk drive for downloading data (default)

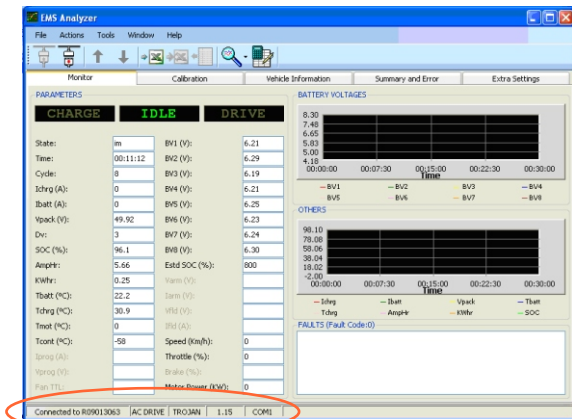
Connecting to EMS



6. Click Connect button and a dialogue box will appear
7. Select Serial port, Car type and Battery type and click OK

Start using your Analyser tool

Monitor system [Idle]



1. This is idle mode data and highlighted in red show status of system connectivity



Connect



Disconnect



Read



Write



Download & Stop



Upload



Zoom Graph

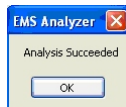
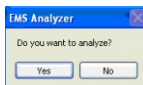
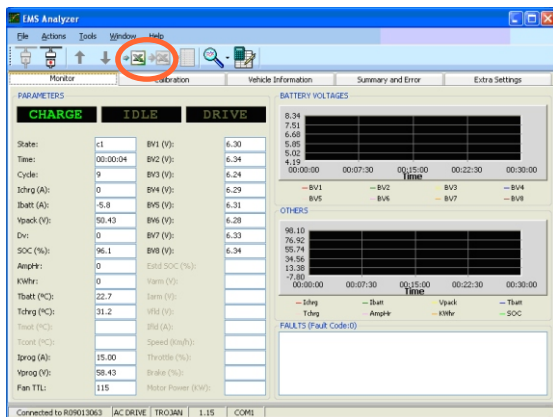


Analysis

Note: Default password – “engineer”

Start using your Analyser tool

Monitor system [Charge]



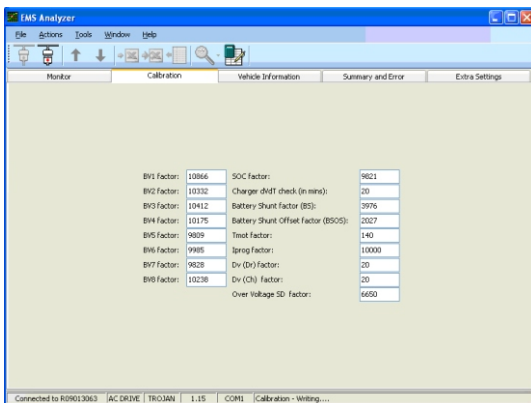
Microsoft Excel - R09013063 290109 09:47:58 Ch.																											
File Edit View Insert Format Tools Data Window Help																											
Type a question for help																											
A2 C1 Coric Sans MS 7 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 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772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 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2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 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1. This is charge mode data and to log the charge data you need to select the download button. The data starts to download in default drive automatically. Once you select stop button it asks for Analysis of the downloaded data.

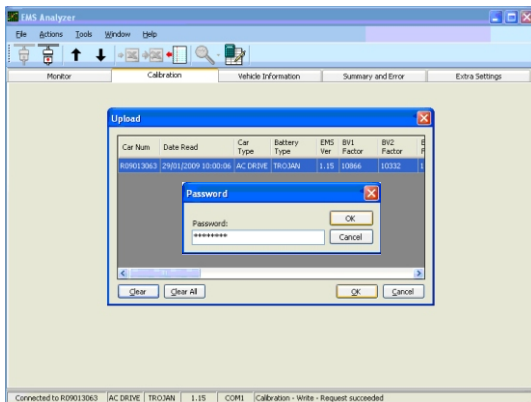
2. Select YES and the data analysis will be completed.

Start using your Analyser tool

Calibration [Read & Write]

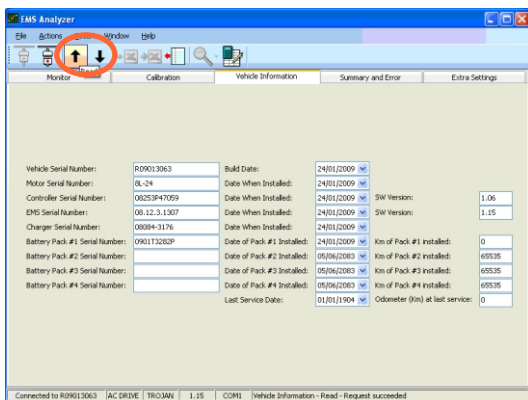


1. This is calibration mode, you can read and write calibration from this Page

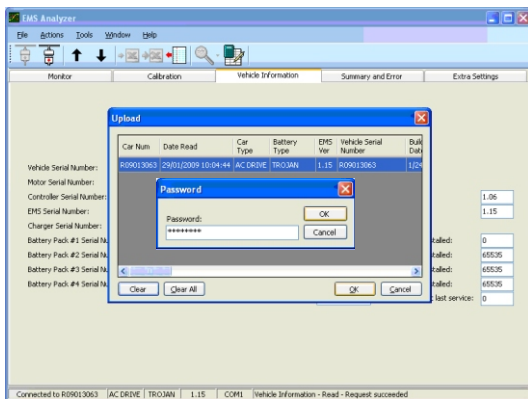


Start using your Analyser tool

Vehicle information [Read & Write]

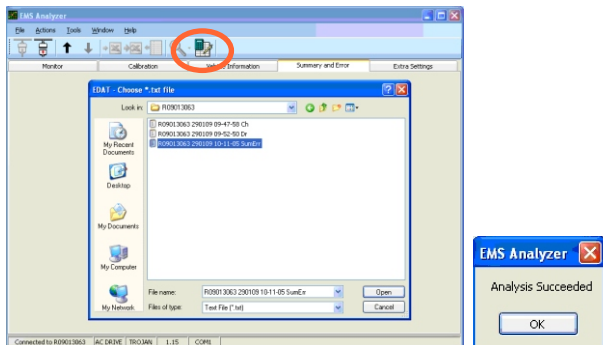


1. This is vehicle information mode, you can read and write calibration from this page

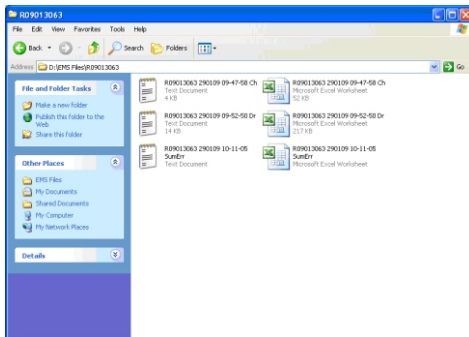


Start using your Analyser tool

Summary & Error [Read & Analyse]



1. This feature is used to analyse the data which is already downloaded by this tool and not analysed.



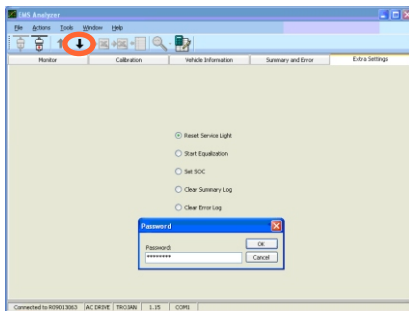
2. All the data will be stored in default drive selected during installation

Start using your Analyser tool

Extra Settings

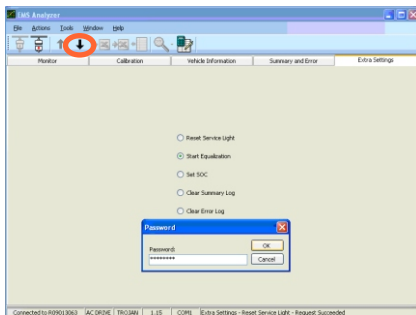
1. Reset Service light

The Service light can be reset by clicking the “write” button on tool bar. Password should be entered to submit the command



2. Start equalization

The equalization command can be given by clicking the “write” button on tool bar.

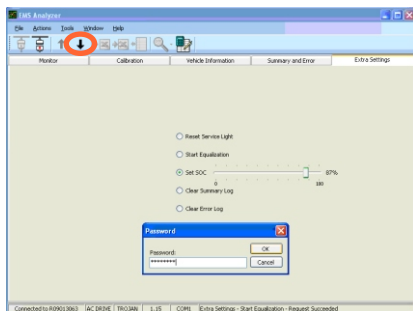


Start using your Analyser tool

Extra Settings

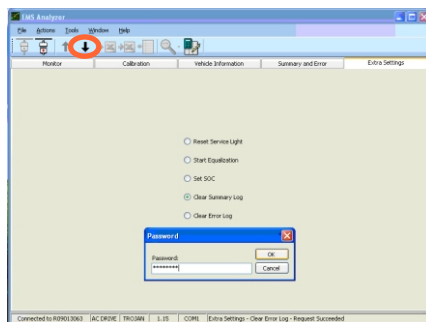
3. Set SOC level

The State of charge level can be set by selecting the slide bar to the desired SOC level



4. Clear summary data

The Summary data can be cleared by using this command

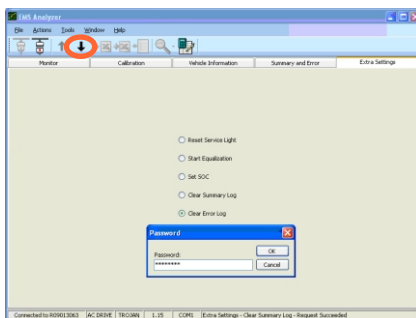


Start using your Analyser tool

Extra Settings

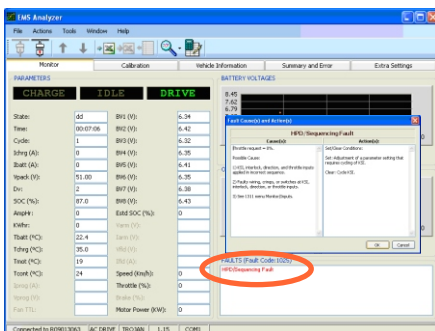
5. Clear error data

The error data can be cleared by using this command



Online Faults

Double click the fault to know the Cause and Action of the fault



Start using your Analyser tool

Trouble shooting

When i insert the CD it is not Autorun

Try performing the following actions

- ☞ Try installing manually by selecting setup.exe

I cannot read data on the monitor mode even after connecting

Try performing the following actions

- ☞ Verify that the RS232 cable is connected to computer and EMS
- ☞ Verify that the com port selected is working properly
- ☞ Verify that the USB controller is working properly
- ☞ Verify that the baud rate setting is 2400

I cannot write information to EMS

Try performing the following actions

- ☞ Verify that you are using correct password “engineer”
- ☞ Verify that the RS232 cable is working properly and no damages

I cannot load the Analyser software to my computer

Try performing the following actions

- ☞ Verify that your system requirements are meeting the specifications (Refer page3)

I am unable to run macro automatically after downloading

Try performing the following actions

- ☞ Verify that your system is installed with Microsoft office 2003
- ☞ Verify that the Macro security level is set to Medium in Excel (Go to Tools, Macro, Security and set to medium and save)

Start using your Analyser tool

Trouble shooting

I have Office2007 and unable to run a macro

Try performing the following actions

☞ The CD provided to you has Office 2003 version software and can be installed on your system. During installation you can select only Excel so that Excel 2003 only will be installed.

☞ You can still have Office 2007 on your system and work with Excel 2003.

☞ You need to install Excel 2007 compatibility version to convert 2007 files in 2003 (provided in the installation CD)

New problems encountered other than these

☞ Please contact for further assistance with errors displayed on your screen to vinay@reva-ev.com

REVA

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