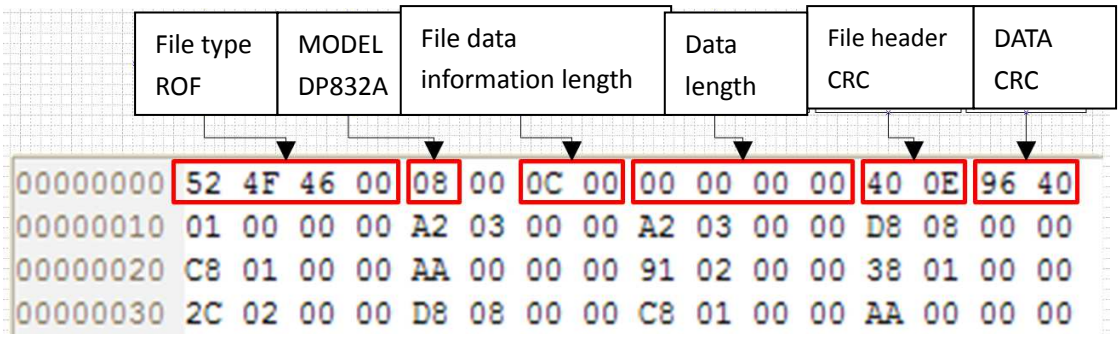
DP800 file format description

DP800 data file include record file(.rof) ,time file(.rtf) and delay file (.rdf).

1. record file (.rof)

Record file is consist of file header ,file data information and file content .File header is 16 bytes ,pic1 shows a record file with hex ,including below information :

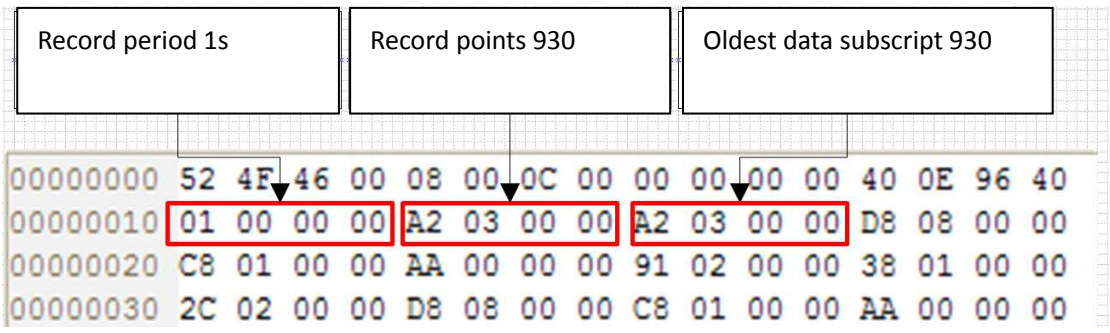
1. file type ,4 bytes ,fixed with .ROF
2. equipment model ,1 byte
3. file data information length ,2 bytes ,fixed with 12
4. data length ,4 bytes ,fixed with 0
5. file header CRC value ,2 bytes
6. data CRC value,2 bytes ,hasn't be used



Pic 1

File data information has 12 bytes ,as pic 2 shows ,including below items :

1. record period ,4 bytes
2. sampling points ,4 bytes
3. The oldest data subscript ,4 bytes

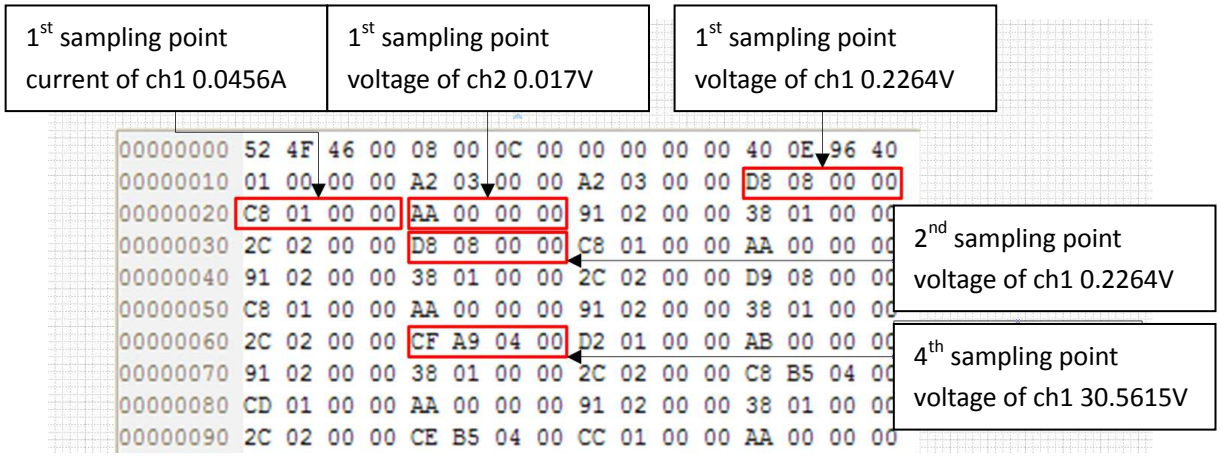


Pic 2

the file content shows record channel data include voltage and current value , it starts from 28th byte , record the voltage and current value of channel 1 to the max channel , each record point data structure as below :

1. voltage value of channel 1 , 4 bytes
2. current value of channel 1, 4 bytes
3. …
4. voltage value of the max. channel , 4 bytes
5. current value of the max. channel , 4 bytes

recorded data divide 10000 get the real voltage and current value , as pic 3 shows , for example the 4th point voltage is CF A9 04 00 , transfer 00 04 A9 CF to decimal get 305615, divide 10000 get 30.5615

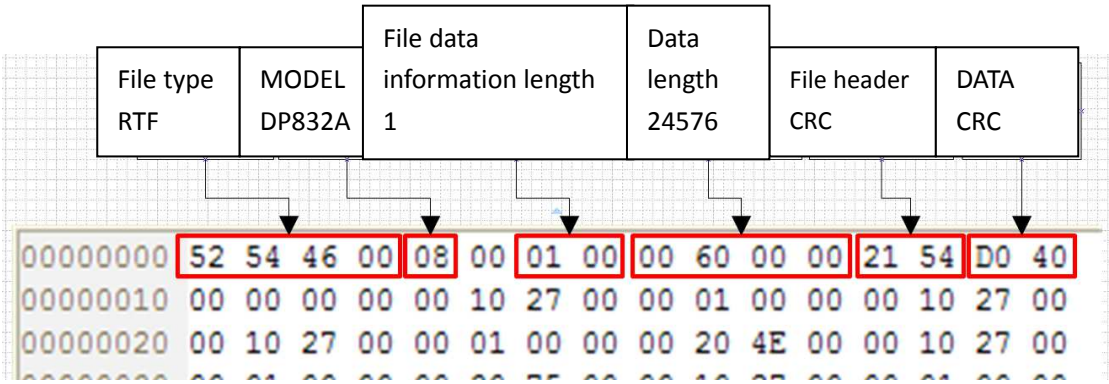


pic 3

2. Time file (.rtf)

time file is consist of file header , file data information and file content. File header has 16 bytes , pic 4 shows time file’s structure :

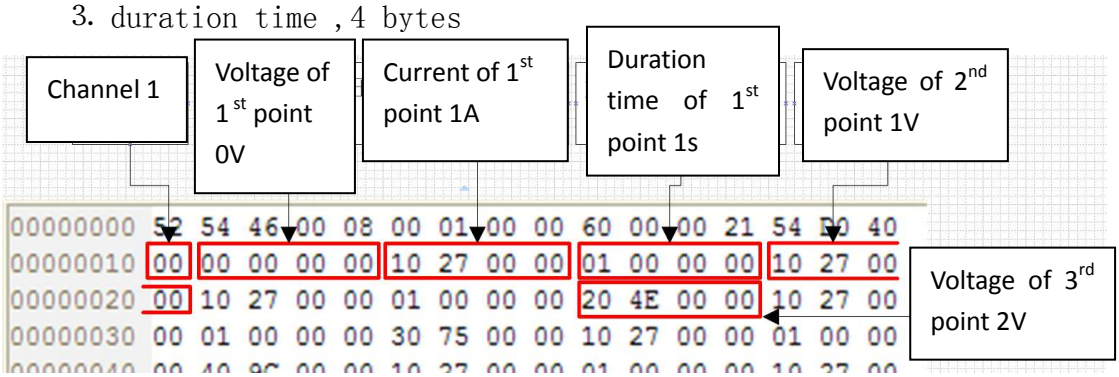
1. file type , 4 bytes , fixed with .RTF
2. equipment model , 1 byte
3. file data information length, 2 bytes , fixed with 1
4. data length , 4 bytes , fixed with 24576
5. file header CRC value , 2 bytes
6. data CRC value , 2 bytes, hasn’t been used



pic 4

File data information length is 1 byte ,shows current channel information ,the file saved edited 2048 timing parameter in order from 0 to 2047,including voltage ,current and duration time information .Pic 5 shows timing file's structure .

1. voltage setting value ,4 bytes ,the data divide 10000 get the real voltage value .
2. current setting value ,4 bytes,the data divide 10000 get the real current value
3. duration time ,4 bytes



pic 5

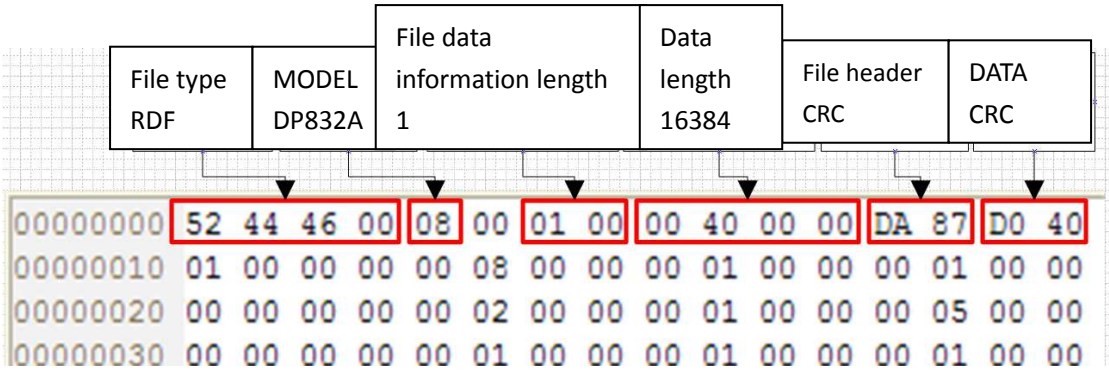
3. delay file (.rdf)

Delay file is consist of file header ,file data information and file content .File header has 16 bytes ,pic 6 shows delay file's structure .

1. file type ,4 bytes ,fixed with .rdf
2. equipment model ,1 byte
3. data information length,2 bytes ,fixed with 1
4. data length ,4 bytes ,fixed with 16384

5. file header CRC value ,2 bytes

6. data CRC value ,2 bytes ,hasn’t been used

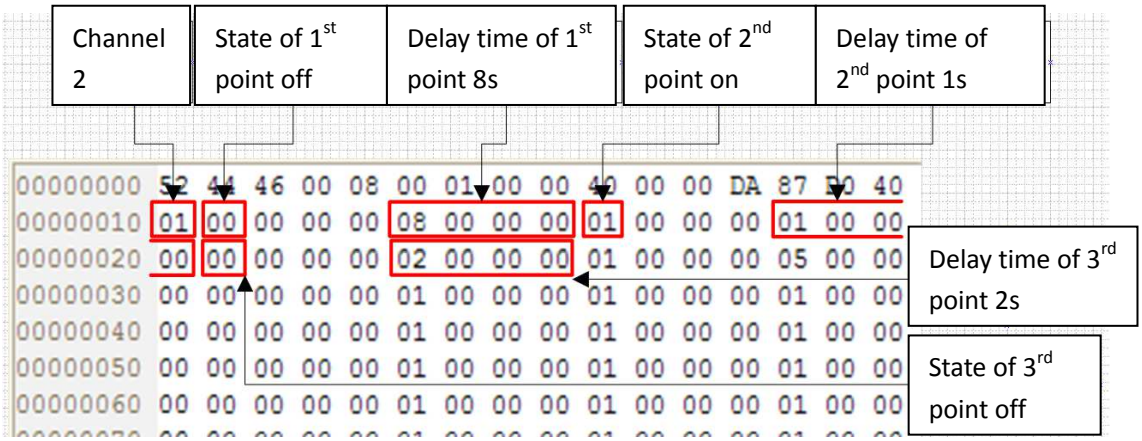


PIC 6

File data information length is 1 byte ,save current channel information ,that are 2048 delay settings in order from 0 to 2047 ,including switch state and delay time ,as pic 7 shows ,the delay file structure .

1. switch state ,1 byte, 0 means off ,1 means on .

2. delay time ,4 bytes



pic 7