

Table of Contents

| | |
|-----------------------------------|---|
| How to change DRS parameters..... | 1 |
| Parameters to be changed..... | 2 |

How to change DRS parameters

```
cd working/drs4command.list
```

No need to compile it, if you change the file in the working directory. ! Pay attention, if somebody does a makeinstall it overwrite your file! To avoid it you could change the file from

```
cd dreamDaq/drs4command.list
```

and now you need to do makeintall and you will overwrite the file that is in working.

Parameters to be changed

- sampling frequency

```
WRITE_REGISTER 80D8 2 # frequency 1 GS/sec
WRITE_REGISTER 80D8 1 # 2.5 GS/sec
WRITE_REGISTER 80D8 0 # 5 GS/sec
```

- enable readout 1 group or 4 groups

```
WRITE_REGISTER 8120 f # Read all 4 groups
WRITE_REGISTER 8120 1 # Read only first group
```

- CHANNEL VERTICAL OFFSET

The MCP has positive signal, you need to put low offset. The contrary is for the PMTs

```
## offset configuration for PMTs (negative signals)
##WRITE_REGISTER 1098 F6800 # DAC GROUP0 OFFSET all ch (baseline @ 3440)
WRITE_REGISTER 1198 F6800 # DAC GROUP1 OFFSET all ch
WRITE_REGISTER 1298 F6800 # DAC GROUP2 OFFSET all ch
WRITE_REGISTER 1398 F6800 # DAC GROUP3 OFFSET all ch

#Offset configuration for bipolar signals
##WRITE_REGISTER 1098 F8F00 # DAC GROUP0 OFFSET all ch set to 0mV (baseline @ 2024)

#Offset configuration for MCP (positive signals)
WRITE_REGISTER 1098 FBF00 # DAC GROUP0 OFFSET all ch (baseline@450)
```

-- SilviaFranchino - 2015-10-28

This topic: DREAM > DrsParameters

Topic revision: r1 - 2015-10-28 - SilviaFranchino



Copyright &© 2008-2022 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

or Ideas, requests, problems regarding TWiki? use Discourse or Send feedback