4.3 Commands:

Power

SET_POWER_ON   reply   **POWER_IS_ON**
This command is used to switch the power supply on.

SET_POWEROFF   reply   **POWER_IS_OFF**
This command is used to switch the power supply off.

Current

SAsxxxxxxxxx   reply   **+xxxxxxxxxµA**
This command is used to set current in micro amperes in bipolar mode.
SA: Set Ampere s: + or – for polarity   xxxxxxxxx: current in micro Amperes.

SETREGUL_AMP   reply   **CURRENT_REGU**
This command starts the regulation of current.

READ_CURRENT   reply   **CsxxxxxxxxµA**
This commands reads the real time current (as displayed on the unit) in micro amperes.
s: + or – for polarity   xxxxxxxxx: current in micro Amperes.

READ_CURRSET   reply   **sxxxxxxxxxµA**
This command reads the last current setting given in micro amperes.
s: + or – for polarity   xxxxxxxxx: current in micro Amperes

READ_C_LIMIT   reply   **CL=xxx.xxxxA**
This command reads the Current Limit in Amperes.

SET_STAND_BY   reply   **REGUL_PAUSED**
This command stops the regulation or pause the regulation.

SCL=xxxxxxxx   reply   **Climit=xx.xxx**
This command is used to set the Current limit in amperes.

Field

SGsxxxxxxxxx   reply   **FsxxxxxxxxmG**
This command is used to set field in milliGauss in bipolar mode.
SG: Set Gauss   s: + or – for polarity   xxxxxxxx: for milliGauss

READMAGFIELD   reply   **FsxxxxxxxxmG**
This command reads the magnetic field (as displayed on the unit) in milliGauss.
s: + or – for polarity   xxxxxxxx: for milliGauss

SETREGUL_FLD   reply   **FIELD__REGUL**
This command starts the regulation of field.

READ_VOLTAGE   reply   **VOLT+xx.xxxV**
This command reads the voltage in volts (as displayed on the unit).

READ_FLD_SET   reply   **FsxxxxxxxxmG**
This command reads the last field setting given in milliGauss.
s: + or – for polarity   xxxxxxxx: for milliGauss

SET_STAND_BY   reply   **REGUL_PAUSED**
This command stops the regulation or pause the regulation.

Remote

START_REMOTE   reply   **REMOTE_IS_ON**
This command is used to switch to remote mode.

STOP__REMOTE   reply   **REMOTE_IS_OF**
This command is used to switch to normal mode.

Edge mode

EDGE_MODE_ON   reply   **STARTED_EDGE**
 This command is used to set the field reading in edge mode.

EDGE_MODE_OF   reply   **STARTED_EDGE**
 This command is used to set the field reading in normal mode.

NOTE: The edge mode configuration can only be done in local.

RAMPE

SULpxxxxxxxx   reply   **ULIMIT=X.XXT**
 This command is used to set upper ramp limit.
SUL: string   P: + or - for polarity   xxxxxxxx: field in Gauss
If limit greater than the limit of supply: reply   **U_LIMIT!<=1T**

SLLpxxxxxxxx   reply   **ULIMIT=X.XXT**
 This command is used to set lower ramp limit.
SLL: string   P: + or - for polarity   xxxxxxxx: field in Gauss
If limit greater than the limit of supply: reply   **U_LIMIT!<=1T**

SFS=xxxxxxxx   reply   **F_STEP=X.XXT**
 This command is used to set the step size of field during the ramp.
 Xxxxxxxx: field in Gauss
 If the command exceeds the limit   reply   **F_STEP!<=01T**

SWT=xxxxxxxx   reply   **t_WAIT=xxxxS**
 This command is used to set the amount of time to wait between steps after reaching stability.
 xxxxx: time in Seconds
If the command exceeds the limit   reply   **!tWAIT>1000s**

START_RAMP_F   reply   **RAMP_STARTED**
 This command is used to start the ramp with steps of field defined by the user.

STOP__RAMP_F   reply   **RAMP_STOPPED**
 This command will stop the ramp started by the above command.

Ethernet

READ_IPADRES   **reply: xxx.xxx.xxx.xxx**
This command is used to read the present **IP** address saved in the device.

READ_NMADRES   **reply: xxx.xxx.xxx.xxx**
This command is used to read the present **net mask** address saved in the device.

READ_GWADRES   **reply: xxx.xxx.xxx.xxx**
This command is used to read the present **gateway** address saved in the device.

READ_DNADRES   **reply: xxx.xxx.xxx.xxx**
This command is used to read the present **domain name server** saved in the device.

READ_PORTADR   **reply: PORTxxxxxxxx**
This command is to read the present **port address** of the device.

Status

READ_STATUS1   reply   **xxxxxxxxxxxx**

XXXXXXXXXXXX - where the bits corresponds to :

STATUS		
ILOCK1	1 = Normal, Close	0 = Fault, Open
ILOCK2	1 = Normal, Close	0 = Fault, Open
ILOCK3	1 = Normal, Close	0 = Fault, Open
Security	1 = Normal, Close	0 = Fault, Open
Remote	1 = External supply Command	0 = MPU Command, local or distance
Gaussampere	1 = Current regul mode	0 = Field regul mode
Regulation	1 = In Regulation	0 = Stand by, Regulation off
Power	1 = Output Power is On	0 = Power is Off
Edge Mode	1 = Edge Mode is On	0 = Edge Mode is Off
Maintenance	1 = Maintenance is On	0 = Maintenance is Off
Heater	1 = Heater On	0 = Heater Off
RAZ	1 = RAZ status On	0 = RAZ Off

RS232 Commande for TCP/IP Config

The following can be command only through RS232 connection.

Each address is sent in 2 parts. The two must be sent for the address to complete and then it will be updated. If IP2 is sent first, the reply will be **ip2=xxx.xxx**, else if the IP1 is sent first and then the IP2, the reply will be "**ip=xxx.xxx.xxx.xxx**", which means the address is completely received and is updated.

If there is an error in the command, the device returns "**WRONG ADDRES**".

IP1= XXX.XXX   **reply: ip1=xxx.xxx**
IP2= XXX.XXX   **reply: ip2=xxx.xxx or**
                                                       Reply: ip=xxx.xxx.xxx.xxx
This command is used to change the **IP** address of the power supply

NM1= XXX.XXX   **reply: nm1=xxx.xxx**
NM1= XXX.XXX   **reply: nm2=xxx.xxx or**
                                                       Reply: netmask=xxx.xxx.xxx.xxx
This command is used to change the **net mask** of the unit

GW1= XXX.XXX   **reply: gw1=xxx.xxx**
GW1= XXX.XXX   **reply: gw2=xxx.xxx or**
                                                       Reply: gateway=xxx.xxx.xxx.xxx
This command is used to change the **gateway** of the unit

DN1= XXX.XXX   **reply: dn1=xxx.xxx**
DN1= XXX.XXX   **reply: dn2=xxx.xxx or**
                                                       Reply: nameserver=xxx.xxx.xxx.xxx
This command is used to change the **domain name server** of the unit

PORT0000XXXX   **reply: PORT0000xxxx**
This command is used to change the port address used for communication.