

4. Communication via RS422 line

Transfer rate 9600bd, 8bit, No parity.

- Channel Off: Shutoff main

@ - Command
adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)
adr2 - main number
| O | F | F | - 3 symbol order
csum - monitoring sum
| CR | LF | - conjunction CR LF nastily setting-up within menu

Messages sending CHANNEL REPLY

- Channel On: Switch On main

adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)
adr2 - main number
| O | N | - 2 symbol order
csum - monitoring sum
| CR | LF | - conjunction CR LF nastily setting-up within menu

Messages sending CHANNEL REPLY

- Auto mode: setting-up self acting regime regulation main

adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)
adr2 - main number
| A | U | T | - 3 symbol order
csum - monitoring sum
| CR | LF | - conjunction CR LF nastily setting-up within menu

Messages sending CHANNEL REPLY

- Manual mode: setting-up manual regime regulation daného main

@ - Command
adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)
adr2 - main number
| M | A | N | - 3 symbol order
csum - monitoring sum
| CR | LF | - conjunction CR LF nastily setting-up within menu

Messages sending CHANNEL REPLY

- Set Sense Limit: Setting up Vsense limit
@ - Command
adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)
adr2 - main number

| S | L | I | M | I | T | - 6 symbol order

|V11|V12|V13|V14| - Lower Vsense limit (4byte/format 000.0V)
|Vm1|Vm2|Vm3|Vm4| - Upper Vsense limit (4byte/format 000.0V)

csum - monitoring sum

| CR | LF | - conjunction CR LF nastily setting-up within menu

Messages sending CHANNEL REPLY

- Set Output Voltage: setting-up output voltage in manually regime

@ - Command
adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)
adr2 - main number

| S | E | T | - 3 symbol order

|V11|V12|V13|V14| - Vout value(4byte/format 000.0V)

csum - monitoring sum

| CR | LF | - conjunction CR LF nastily setting-up within menu

Messages sending CHANNEL REPLY

- Read: Output measure

@ - Command
adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)
adr2 - main number

| R | E | A | D | - 4 symbol order

csum - monitoring sum

| CR | LF | - conjunction CR LF nastily setting-up within menu

Messages sending CHANNEL REPLY

- Channel Reply:

- Reply
adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)
adr2 - main number

|Vo1|Vo2|Vo3|Vo4| - Vout value (4byte/format 000.0V)
| - separator
|Vs1|Vs2|Vs3|Vs4| - Vsense value(4byte/format 000.0V)
| - separator
|Io1|Io2|Io3|Io4| - Iout value (4byte/format 00.00A
| - separator

S1 - Status1:
bit 0,1 - output limit 01 = 700V, 10 = 900V, 11 = 1100V
bit 2 - H=HV On / L=HV Off
bit 3 - H=main

S2 - Status2:
bit 0 - Zapnutí výstupu
bit 1 - regime (1=aut. / 0=Man.)
bit 2 - Undercurrent
bit 3 - Overcurrent

csum - monitoring sum
| CR | LF | - conjunction CR LF nastily setting-up within menu

- Local:

@ - Command
adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)
| L | O | C | A | L | - 5 symbol order
csum - monitoring sum
| CR | LF | - conjunction CR LF nastily setting-up within menu

Messages sending CHANNEL REPLY

- Remote:

@ - Command
adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)
| R | E | M | O | T | - 5 symbol order
csum - monitoring sum
| CR | LF | - conjunction CR LF nastily setting-up within menu

Messages sending CHANNEL REPLY

- Set Auto Limit:

@ - Command
adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)
| A | L | I | M | I | T | - 6 symbol order

|V11|V12|V13|V14| - Lower limit (4byte/format 000.0V)
|Vm1|Vm2|Vm3|Vm4| - Upper limit(4byte/format 000.0V)

csum - monitoring sum
| CR | LF | - conjunction CR LF nastily setting-up within menu

Messages sending CHANNEL REPLY

- State:

@ - Command
adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)
| S | T | A | T | E | - 5 symbol order

csum - monitoring sum
| CR | LF | - conjunction CR LF nastily setting-up within menu

Messages sending CHANNEL REPLY

- Crate Reply: crate STATE

- Reply
adr1-HB - address crate (high byte)
adr1-LB - address crate (lower byte)

CS1 - crate status 1:
 bit 0 - Interlock (1=connect/ 0=disconnect)
 bit 1 - Interlock bypass (1=connect/ 0=disconnect)
 bit 2 - System shutdown
 bit 3 - ? (1=enable / 0=disable)

CS2 - crate status 2
 bit 0 - Channel 1 (1=online / 0=offline)
 bit 1 - Channel 2 (1=online / 0=offline)
 bit 2 - Channel 3 (1=online / 0=offline)
 bit 3 - set control(1=local / 0=remote)

S1-1 - channel 1 - status 1 (version v channel reply)
 S2-1 - channel 1 - status 2 (version v channel reply)
 S1-2 - channel 2 - status 1 (version v channel reply)
 S2-2 - channel 2 - status 2 (version v channel reply)
 S1-3 - channel 3 - status 1 (version v channel reply)
 S2-3 - channel 3 - status 2 (version v channel reply)

Wiring sources with interface RS422:

