TeraFlash Pro: Commands for Dual Host Remote Control

For initialization, open 2 UDP-channels on localhost, the one for reading with local port-number 61235, the one for writing with local port-number 61237. For communication, write a command over the write-channel on localhost, to port-number 61234, and then wait on the read-channel (port-number 61235) for the response. Send commands without end-of-line character. Every command sends a response: ‚OK' (partly with parameter) or ‚ERROR'. (⊔ means whitespace)

RC-LASER ⊔ **:** ⊔ **OFF**
Switch off laser and emitter voltage

RC-LASER ⊔ **:** ⊔ **ON**
Switch on laser

RC-VOLT1 ⊔ **:** ⊔ **OFF**
Switch off emitter-1 voltage

RC-VOLT1 ⊔ **:** ⊔ **ON**
Switch on emitter-1 voltage; works only, if laser is already on

RC-VOLT2 ⊔ **:** ⊔ **OFF**
Switch off emitter-2 voltage

RC-VOLT2 ⊔ **:** ⊔ **ON**
Switch on emitter-2 voltage; works only, if laser is already on

RC-RUN ⊔ **:** ⊔ **OFF**
Stop measurement

RC-RUN ⊔ **:** ⊔ **ON**
Start measurement

RC-BEGIN ⊔ **%.1f** ⊔ *start point in ps*
Set start point in ps

RC-RANGE ⊔ **%d** ⊔ *measuring range in ps*
Set measuring range in ps

RC-AVERAGE ⊔ **%d** ⊔ *averaging number*
Set averaging number

RC-TRANSFER ⊔ **:** ⊔ **SLIDING**
Set data transfer to: continuously

RC-TRANSFER ⊔ **:** ⊔ **BLOCK**
Set data transfer to: not until complete averaging

RC-ANALYSIS ⊔ **:** ⊔ **REDUCED**
Set data analysis to: block by block

RC-ANALYSIS ⊔ **:** ⊔ **FULL** ⊔ **RATE**
Set data analysis to: full rate

RC-TIA1 ⊔ **:** ⊔ **INTERN**
Set measurement channel 1to: internal TIA

RC-TIA1 ⊔ : ⊔ EXTERN
Set measurement channel 1 to: external TIA

RC-TIA2 ⊔ : ⊔ INTERN
Set measurement channel 2 to: internal TIA

RC-TIA2 ⊔ : ⊔ EXTERN
Set measurement channel 2 to: external TIA

RC-TIA ⊔ : ⊔ SENSITIVITY ⊔ %d ⊔ *measuring range in nA*
Set TIA measuring range (100, 300, 1000 [nA +/-])

RC-FILEPATH ⊔ %s ⊔ *path string*
Set file path for saving pulse data

RC-WAIT ⊔ : ⊔ ON
Switch on WAIT state: this is necessary before saving

RC-WAIT ⊔ : ⊔ OFF
Switch off WAIT state

RC-AUTO ⊔ : ⊔ ON
Switch on AUTO-WAIT

RC-AUTO ⊔ : ⊔ OFF
Switch off AUTO-WAIT

RC-SAVE ⊔ W-S
Save pulse data with spectrum

RC-SAVE ⊔ WO-S
Save pulse data without spectrum

RC-REVERSE ⊔ : ⊔ ON
Switch on REVERSE mode

RC-REVERSE ⊔ : ⊔ OFF
Switch off REVERSE mode

RC-REF
Set current measurement as Reference

RC-CLR
Delete a present Reference, re-normalize frequency spectra

RC-BGR
Set current measurement as Background

RC-BCL
Delete a present Background

RD-AMPLITUDE
Read amplitude [nA]

RD-TAC.TIME
Read total acquisition time [s]

RD-XAC.TIME
Read relative acquisition time

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RD-LASER
Read laser state

RD-VOLT1
Read emitter supply state channel 1

RD-VOLT2
Read emitter supply state channel 2

RD-RUN
Read acquisition state

RD-BEGIN
Read measuring start point [ps]

RD-RANGE
Read measuring range [ps]

RD-AVERAGE
Read desired average

RD-TRANSFER
Read transfer mode

RD-ANALYSIS
Read analysis mode

RD-TIA1-MODE
Read TIA 1 mode

RD-TIA2-MODE
Read TIA 2 mode

RD-TIA-SENSITIVITY
Read TIA sensitivity

RD-WAIT
Read WAIT button state

RD-AUTO
Read auto button state

RD-REVERSE
Read REVERSE button state