WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series & Pro I/O™ Series

Weigl ASCII commands for UDP, INI, Show file integration (Conductor and Showforge) and RS-232/485. Default connection parameter: 9600 baud, 8 data bits, no parity, 1 stop bit. Port: RS232-1 If these serial parameters are changed, the transmitter must be changed to the same parameters! **Maximum length of a serial string for port RS232-1: 150 characters.** The same commands can be sent via IP (UDP). **Maximum length of an IP-string: 512 characters.**	Each command starts with a "!", terminator: "#". **The programmer has to take care of the correct syntax!** **Wrong commands are ignored or lead to a unexpected result!**

Commands marked in this colour are not implemented yet!

Commands marked in this colour are only possible in the Control.ini file!

Structure of the Control.ini file: It must always start with the definition of a trigger event. As a start condition either an input, time, real time clock, variable, DMX or infrared

Trigger Event	Name	Parameter	Example-Explanation	Info
Input events:		Stored in Control.ini file on memory card		This commands are only possible in the Control.ini file
!iXc!...#	Input x close	X: input ID from 1 to 16. further commands	!i1c!esd2:"Hello World"#	If input 1 is closed, then send "Hello World" on serial port RS232-2.
!iXo!...#	Input x open	X: input ID from 1 to 16. further commands	!i2o!pst\AUDIO\TRACK001.OGG#	If input 2 opens, then play single track "TRACK001.OGG" of folder AUDIO
!iXt!...#	Input x toggle	X: input ID from 1 to 16. further commands	!i3t!edf1=20<10#	If input 3 toggles, then fade DMX channel 1 from current value within 10 seconds to value 20.
Time events:		Stored in Control.ini file on memory card		This commands are only possible in the Control.ini file
!tmXX:YY!...#	Absolute time after powering on or after the insertion of a flash card.	XX = minutes YY = seconds	!tm135:20!rsn1# !tm01:20!...#	At 2 hours, 15 minutes and 20 seconds, after powering on the ProCommander® or after the insertion of a flash card, the first show will be started in normal mode. If the time 1 minute 20 seconds is reached after the start-up or plug in of the card, then the downstream command will be executed.
!t&XX:YY!...#	At any time the value is reached the downstream is executed.	XX = minutes YY = seconds	!t&05:00!...#	All 5 minutes the downstream command will be executed.
!tcWW:XX:YY:ZZ!...#	Source is an external time code	WW = hours XX = minutes YY = seconds ZZ = frames	!tc01:30:00!...# !tc03:15:30:10!...#	If the ProCommander receives the external time code with 1 hour, 30 minutes and 0 seconds, then the downstream command will be executed. If the ProCommander receives the external time code with 3 hour, 15 minutes, 30 seconds and 10 frames, then the downstream command will be executed. ATTENTION - Frames only works for ProCommander® AX
Real time clock events:		Stored in Control.ini file on memory card		This commands are only possible in the Control.ini file
!rc...!...#	Time-controlled events with the internal real time clock.	**If no battery is inserted the command will be executed with a delay!**		
!rc(X=Y)!...#	=: is equal to	X: weekday/ day/ month/ year/ hour/ minute/ seconds Y: value w = weekday (value range: 1-7; Monday = 1, Sunday = 7)	!rc(h=8)!rsa3# !rc(d=24;o=12;y16)!rsn1# !rc(h=4;m=20)!rsnl1#	At 8 o'clock the third show starts in add mode. December 24th 2016 starts the first show in normal mode. The first show starts at 4:20 a.m. and runs in a loop, if a battery is inserted and the real time clock is activated. If no battery is inserted the command will be executed with a delay of 20 hours and 20 minutes. Because every time you power up the device or plug in a memory card the internal clock is set to 08:00 a.m..
!rc(X<Y)!...#	<: is less than	d = day (value range: 1-31).	!rc(o<5)!...#	Till may the downstream command will be executed.
!rc(X>Y)!...#	>: is greater than	o = month (value range: 1-12). y = year (value range: 16-17; corresponds 2016 to 2017).	!rc(d>13; h=9)!...# !rc(w>2;w<7;h=8)!...#	At 9 o'clock from the 13th till the end of each month the downstream command will be executed. From Tuesday till Saturday the downstream command will be executed precisely at 8 a.m.
!rc(X&Y)!...#	&: modulo	h = hour (value range: 0-23). m = minute (value range: 0-59).	!rc(m&15)!...# !rc(s&10)!...#	At every quater (15, 30, 45, 0) the downstream command will be executed. Every 10 seconds the downstream command will be executed.

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Trigger Event	Name	Parameter	Example-Explanation	Info
DMX events:		**Stored in Control.ini file on memory card**		**This commands are only possible in the Control.ini file**
!d...!...#	The whole DMX univers can als be used as a start condition for a command line.	As operators > < = are permitted.		
!dX=Y!...#	=: is equal to	X: DMX channel Y: Value of the DMX channel	!d1=255!...#	If the value of the DMX channel 1 is equal 255, than the downstream command will be executed.
!dX<Y!...#	<: is less than	X: DMX channel Y: Value of the DMX channel	!d150<20!...#	If the value of the DMX channel 150 is less than 20, than the downstream command will be executed.
!dX>Y!...#	>: is greater than	X: DMX channel Y: Value of the DMX channel	!d512>175!...#	If the value of the DMX channel 512 is greater than 175, than the downstream command will be executed.
!d\X>Y!...#	\X: DMX channel, which is the sum of variable value (V) + offset (Z)	X: DMX channel, which is the sum of variable value (V) + offset (Z) Y: Value of the DMX channel V: Variable number Z: Offset [0..511], whereby the max. offset must not exceed the sum of X by 512.	!d\40+2>10!...# !d\15+23<241!...# !d\2=150!...#	The value of variable number 40 is 5 and the offset is 2, so the sum is 7, which is the DMX channel. If the value of the DMX channel 7 is greater than 10, then the downstream command will be executed. The value of variable number 15 is 7 and the offset is 23, so the sum is 30. If the value of the DMX channel 30 is less than 241, then the downstream command will be executed. Without offset, the value of variable number 2 is 8. If the value of the DMX channel 8 is equal 150, then the downstream command will be executed.
Infrared commands:		**Stored in Control.ini file on memory card**		**This commands are only possible in the Control.ini file**
!k...!...#	A infrared remote control can be used to start a command line. (Only if the device is capable of infrared).	Input 1 to 10 can be used, whereby the digit 0 is equivalent to 10.		
!kXc!...#	Input x open	X: input ID from 1 to 16. further commands	!k1c!...#	If input 1 on the infrared remote control is activated (c=close), than the downstream command will be executed.
!kXo!...#	Input x open	X: input ID from 1 to 16. further commands	!k5o!...#	If input 5 on the infrared remote control is deactivated (o=open), than the downstreamcommand will be executed.
!kXt!...#	Input x toggle	X: input ID from 1 to 16. further commands	!k0t!...#	If input 10 on the infrared remote control changes (t=toggle), than the downstream command will be executed.

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Command	Name	Parameter	Example-Explanation	Info
Get configuration:				
!?#		2: Network port 2 for ProCommander® X Series	!?# !?2#	List the current settings of the unit on Ethernet port 1. List the curent settings of the unit for Ethernet port 2.
Set commands:	**cd**	**all changes with the set commands are stored in the internal EE-Prom**		
!sag..#	Set amplifier gain for built in 20W amplifier	Gain factor [1..4]	!sag1# !sag2# !sag3# !sag4#	Set amplifier gain to 1 (=20dB) Set amplifier gain to 2 (=26dB) Set amplifier gain to 3 (=32dB) Set amplifier gain to 1 (=36dB)
!san..#	Set analog min value	Output channel: 1..16, where: 1..4 = Analog output 1..4, 5..8 = Servo output 1..4, 9..16 = PWM output 1..8. Level: (0-10000) in 0.01% steps.	!san1=1000#	Set analog min value of analog output 1 to 100. If the new min value is greater than the current max value, the min value will be limited to the max value!
!sax..#	Set analog max value	Output channel: 1..16, where: 1..4 = Analog output 1..4, 5..8 = Servo output 1..4, 9..16 = PWM output 1..8. Level: (0-10000) in 0.01% steps.	!sax1=9000#	Set analog max value of analog output 1 to 900. If the new max value is less than the current min value, the max value will be limited to the min value!
!sbdX#	Set DMX byte delay	X: delay values between 0 and 250 The delay time is value*4µs	!sbd1# !sbd5#	Additional delay between the DMX bytes of 4µ seconds. Some DMX devices need a longer time to decode the DMX signal. Additional delay between the DMX bytes of 20µ seconds.
!scc..#	Set RS232/ RS485 Configuration	RS232-ID: 1-3; Configuration: Baud: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 250000, 400000, 1000000; DataBits : 5-8; Parity: Even, Odd, No parity; Stopbits: 1-2.	!scc1=9600,8N1# !scc2=115200,7E2# !scc3=57600,8O1#	set RS232-1 to 9600Baud, 8 databits, No parity, 1 Stopbit. set RS232-2 to 115200Baud, 7 databits, Even parity, 2 Stopbits. set RS232-3 to 57600Baud, 8 databits, Odd parity, 1 Stopbit.
!scd..#	Set RS232/ RS485 Driver-ID	RS232-ID: 1-3; Driver-ID: 0,1,… 0: No driver; 1: SMCI47 - Nanotec (not implemented) 2: Dynamixel 10Bit 3: IAI (not implemented) 4: RS485 5: Target 6: Dynamixel MX-28 V1.0 12Bit 7: Dynamixel Pro54 8: Dynamixel Pro42 9: Applied Motion 10: Dynamixel MX-28 V2.0 11: Dynamixel XM 12: Dynamixel XL 13: DMX-OUT (ProCommander® AX only) 14: DMX-IN (ProCommander® AX only) 15: Dynamixel Pro54P	!scd1=0# !scd1=1# !scd2=2# !scd3=2# !scd2=14#	set RS232-1 to no driver. set RS232-1 to SMCI47 Servo-unit from Nanotec. set RS232-2 to Dynamixel Servo-unit from Robotis. set Pro I/O™ Servo RS485 Output to Dynamixel Servo-unit from Robotis. Set RS232-2 to DMX read in.
!sda..#	Set DMX2Analog start channel.	DMX-Start channel [1 -- 512] for Analog map	!sda2#	The analog outputs are mapped to the consecutive DMX channels beginning with channel 2.

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Command	Name	Parameter	Example-Explanation	Info
!sdbX:Y#	Set daisy chain baud rate	X: [1,2] 1=ON; 2=RS232-3 Y: Baud rate; possible values: 9600, 19200, 38400, 57600 and 115200	!sdb1:115200# !sdc2:19200#	Set daisy chain mode 1 and set baud rate to 115200. This command needs to be sent only to the first Pro I/O™ (A1) or Pro Commander. All units must be rebooted after that command. Set daisy chain mode 2 and set baud rate to 19200. This command needs to be sent only to the first Pro I/O™ (A1) or Pro Commander. All units must be rebooted after that command.
!sdcX#	Set daisy chain	X: [0,1,2] 0=OFF; 1=ON; 2=RS232-3	!sdc1# !sdc2#	Set daisy chain mode 1. This is the default mode and must be used, if the first Pro I/O™ (A1) is connected via network. Set daisy chain mode 2. This mode must be used, if the first Pro I/O™ (A1) is connected to RS232-3 port of the ProCommander®. (DIO32 compatible mode)
!sdd..#	Set DMX2Digital start channel.	DMX-Start channel [1 -- 512] for Digital map	!sdd18#	The digital (OpenCollector) outputs are mapped to the consecutive DMX channels beginning with channel 18.
!sde..#	Set DMX-merge end channel	DMX-Merge End channel [1 -- 512] If Merge-Mode is enabled, it is only valied between start- and end-channel.	!sds200#	new DMX-Merge End channel is stored in EE-Prom.
!sdfX#	Set DMX frame rate	X: frame rate values: 10 to 44	!sdf20# !sdf44# !sdf0#	Set DMX frame rate to 20 frames per second. Set DMX frame rate to 44 frames per second (maximum speed) Switch off frame rate delay, sets DMX signal to maximum speed = 44 frames per second.
!sdi..#	Assign Pro I/O™ IP-address for daisy chain connection.	Pro I/O ID, IP-Address	!sdi192.168.10.201#	Assigns to Pro I/O™ with device ID 1 - 32 the IP address 191.168.10.201. If Pro I/O™ devices are daisy chain connected, for each Pro I/O™ device the same IP address must be assigned in ProCommander®. (ProCommander® firmware 2.12 required)
!sdm..#	set DMX-merge mode	DMX-Merge Mode [0 -- 5] 0: Merge-None 1: Merge-LTP 2: Merge-HTP 3: Merge-Change 4: Merge-Add 5: Merge-Combine If Merge-Mode is enabled, it is only valied between start- and end-channel.	!sdm2#	new Merge-Mode is stored in EE-Prom. 0: Merge-Mode disabeld (default). 1: Output is the lowest value of both DMX signals. 2: Output is the highest value of both DMX signals. 3: Output is that value, which has changed at last. 4: The values of both DMX signals are added; maximum value = 255. 5: Between Start- and End-Channel the output follows the external DMX-Signal.
!sdp..#	Set Driver-Parameter	RS232-ID: 1-3; Parameter-ID: 1,2,… Value: 0..1000000	!sdp1:1=0# !sdp1:2=100000# !sdp2:1=0#	for serial driver of RS232-1 set driver parameter 1 (1=minimum value) to 0. for serial driver of RS232-1 set driver parameter 2 (2=maximum value) to 100000. for serial driver of RS232-2 set driver parameter 1 (1=minimum value) to 0.
!sdr..#	Set DMX read in	1: ON, 0: OFF	!sdr1# !sdr0#	Enable DMX read in. Disable DMX read in.
!sds..#	Set DMX-merge start channel	DMX-Merge Start channel [1 -- 512] If Merge-Mode is enabled, it is only valied between start- and end-channel.	!sds100#	new DMX-Merge Start channel is stored in EE-Prom.
!sdt..#	Set DMX time out	Time: 0--2.5 seconds in 0.01 steps	!sdt100#	Set DMX time out to 1 second.
!seiX#	Set ease-in time	X: 0-10 seconds in 0.01 steps (0-1000)	!sei1000#	Set ease-in time to 10 seconds.
!sfactory#	Set factory		!sfactory#	all settings are switched back to the default factory settings.
!sgi..#	Set Gateway IP-address	IP-Address	!sgi10.0.0.105#	new Gateway IP Adress is stored in EE-Prom.
!sim..#	Set IP-address and sub-net mask	MAC-address, IP-Address, sub-net mask	!sim:00-1E-C0-81-58-75:10.0.3.100:255.255.252.0#	in device with MAC-address 00-1E-C0-81-58-75 the IP Adress 10.0.3.100 and new sub-net mask 255.255.252.0 is stored in EE-Prom.
!sioX#	Set WEMLink EtherCAT display to connected IO module	X: [0..6]: (Sub)-Device-ID of connected IO module, whereby 0 is the ProCommander®	!sio0# !sio1#	Show the I/Os of the ProCommander® on the WEMLink EtherCat display. Show the I/Os of the Sub-Device with the ID 1 on the WEMLink EtherCat display.
!sip..#	Set IP-address	IP-Address; @2: Network port 2 for ProCommander® X Series	!sip10.0.0.100# !sip10.0.0.105@2#	new IP Adress is stored in EE-Prom. Set IP Adress on network 2 on ProCommander® AX to 10.0.0.105.
!skm..#	Set KeyMode	p: parallel m: matrix	!skm:p# !skm:m#	Set key mode to parallel Set key mode to 4x4 matrix

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Command	Name	Parameter	Example-Explanation	Info
!sma..#	Set DMX2Analog mask	Mask for analog outputs; 1: set, 0: clear; left alignement. A 1 indicates, that the corresponding DMX channel is mapped to the analo output. With a 0 the DMX channel will be ignored and the analog output may be controlled internally.	!sma1111111100000000# !sma1111111111111111# !sma1111000011110000#	The four analog outputs and the four R/C servo outputs are mapped to the DMX channels. The four analog outputs, the four R/C servo outputs and the eight PWM outputs are mapped to the DMX channels. The four analog outputs and the first four PWM outputs are mapped to the DMX channels. **!!!The eight PWM channels share with the digital channels 9-16. If PWM and digital channels are mapped to DMX, the digital channels 9-16 must be masked!!!**
!smb..#	Set master bass	Master Bass [0 -- 15]]; Channel number [1--8] for ProCommander® LX only.	!smb10# !smb5:3#	new Master Bass value is stored in EE-Prom. ProLX: all channels are set to bass value 10. ProLX: set bass value 5 on audio channel 3.
!smc..#	Set Multicast IP-address	IP-Address	!smc224.0.0.105#	Set multicast IP Adress to port number 2.
!smd..#	Set DMX2Digital mask	Mask for digital outputs; 1: set, 0: clear; left alignement. A 1 indicates, that the corresponding DMX channel is mapped to the digital output. With a 0 the DMX channel will be ignored and the digital output may be controlled internally.	!smd1111111100000000# !smd1111111111111111# !smd1111000011110000# !smd1111111100000000#	The first 8 digital channels are mapped to the DMX channels. All 16 digital outputs are mapped to the DMX channels. The digital outputs 1-4 and 9-12 are mapped to the DMX channels. **This is a mask example, if the PWM channels are mapped to DMX!**
!smt..#	Set master treble	Master Treble [0 -- 15]]; Channel number [1--8] for ProCommander® LX only.	!smt10# !smt5:3#	new Master Treble value is stored in EE-Prom. ProLX: all channels are set to treble 10. ProLX: set treble value 5 on audio channel 3.
!smv..#	Set master volume	Master Volume [0 -- 31]; Channel number [1--8] for ProCommander® LX only.	!smv25# !smv10:2#	new Master Volume level is stored in EE-Prom. ProLX: all channels are set to volume 25. ProLX: set volume level 10 on audio channel 2.
!spa...#	Assign Pro I/O™ port number to all	Pro I/O ID, Port [0000 -- 65534]	!spa5559#	Set all Pro I/O™ ports to the same port value in the lookup table of the ProCommander®.
!spi..#	Assign Pro I/O™ IP-address	Pro I/O ID, IP-Address	!spi1=10.0.0.201#	Assign to Pro I/O™ with device ID 1 the IP address 10.0.0.201
!spo1..#	Set port1 -- port4	Port [0000 -- 65534]	!spo15555#	new Port1 -- 4 is stored in EE-Prom.
!spp...#	Assign Pro I/O™ port number	Pro I/O ID, Port [0000 -- 65534]	!spp1=5559#	Assign to Pro I/O™ with device ID 1 port 5559
!sreboot#	Reboot unit		!sreboot#	reboots the unit in the same way as a power cycle would do.
!ssd..#	Set Start DMX read channel	DMX-Start channel [1 -- 512] for that channel, which contains the drop-out information.	!ssd1#	The first channel of the dmx stream contents the drop out information.
!ssiX#	Set Sub-Device-ID	X: Sub-Device-ID [1 -- 127]	!ssi1#	Sub-Device-ID is set to 1. ONLY FOR PRO I/O™ EXTENSION MODULES or ProCommander® AX, which should run in Pro I/O mode.
!ssm..#	Set sub-net mask	Sub-Net Mask	!ssm255.255.255.0#	new Sub-Net-Mask is stored in EE-Prom.
!stc..#	Set time code create	0: OFF 1: 24 Frame 2: 25 Frame 3: 30 Frame	!stc0# !stc1# !stc2# !stc3#	Time code OFF. Create time code with 24 frames. Create time code with 25 frames. Create time code with 30 frames.
!stt..#	Set time code time out	Time: 0--2.5 seconds in 0.01 steps	!stt100#	Set time code time out to 1 second
!swi..#	Assign Pro I/O™ IP-address for networkswitch (star) connection.	Pro I/O ID, IP-Address start address	!swi192.168.10.201# !swi192.168.10.201:5597#	Assigns to Pro I/O™ with device ID 1 - 32 the IP address 191.168.10.201 - 191.168.10.232. If Pro I/O™ devices are connected via network switch, for each Pro I/O™ device a seperate IP address must be assigned in the ProCommander®. Assigns to Pro I/O™ with device ID 1 - 32 the IP address 191.168.10.201 - 191.168.10.232 and to all Pro I/O™ port 1 the value 5597. If Pro I/O™ devices are connected via network switch, for each Pro I/O™ device a seperate IP address must be assigned in the ProCommander®. (ProCommander® firmware 4.51 required)
!swp..#	Set WemNet Port number	1..4: Port number.	!swp2# !swp3#	Set Port number 2 (default 5556) as port, where cues are sent to Pro I/O™ devices. Port 2 is the default port. Set Port number 3 (default 6454) as port, where cues are sent to Pro I/O™ devices.
!swp1..#	Set WEM-NET port	Port [1..4]	!swp3#	Defines port 3 as port, which will be used for WEM-NET cues.

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Command	Name	Parameter	Example-Explanation	Info
RTCC commands:				
!srd..#	Set RTCC Date	date in format dd.mm.yy:wd dd: day from [1..31] mm: month [1..12] yy: year [12..99] wd: weekday [1..7] 1= Monday	!srd=20.10.12:1#	Set RTCC date to October 20th 2012; Monday.
!srt..#	Set RTCC Time	time in format hh:mm.ss hh: hour from 00 to 23 mm: minute from 00 to 59 ss: seconds from 00 to 59	!srt=08:30.15#	Set RTCC time to 8h, 30 minutes and 15 seconds.
Change commands:		**all changes are temporarily with the next power cycle, the ProCommander® switches back to the values stored in the EE-Prom**		
!cde..#	Change DMX-merge end channel	DMX-Merge End channel [1 -- 512] If Merge-Mode is enabled, it is only valied between Start- and End-Channel.	!cde200#	temporarily change of DMX-Merge End channel.
!cdm..#	Change DMX-merge mode	DMX-Merge Mode [0 -- 5] 0: Merge-None 1: Merge-LTP 2: Merge-HTP 3: Merge-Change 4: Merge-Add 5: Merge-Combine If Merge-Mode is enabled, it is only valied between Start- and End-Channel.	!cdm2#	temporarily change of Merge-Mode. 0: Merge-Mode disabeld (default). 1: Output is the lowest value of both DMX signals. 2: Output is the highest value of both DMX signals. 3: Output is that value, which has changed at last. 4: The values of both DMX signals are added; maximum value = 255. 5: Between Start- and End-Channel the output follows the external DMX-Signal.
!cdn..#	Change DMX min value	DMX channel: 1..256 Min value: 0-255.	!cdn1=20# !cdn1_512=20#	Change DMX min value of DMX channel 1 to 20. Change DMX min value of DMX channels 1 to 512 to 20. If the new min value is greater than the current max value, the min value will be limited to the max value!
!cds..#	Change DMX-merge start channel	DMX-Merge Start channel [1 -- 512] If Merge-Mode is enabled, it is only valied between Start- and End-Channel.	!cds100#	temporarily change of DMX-Merge Start channel.
!cdx..#	Change DMX max value	DMX channel: 1..256 Min value: 0-255.	!cdx1=200# !cdx1_512=200#	Change DMX max value of DMX channel 1 to 200. Change DMX max value of DMX channels 1 to 512 to 200. If the new max value is less than the current min value, the max value will be limited to the min value!
!cfm..#	Fade master volume	Level: 0--31 Level: 32 => stored level in EEProm. Time: 0--25.5 seconds in 0.1 steps time is calculated for the full range from 0 to 31. If less steps are required, the end value is reached in a shorter time! Channel number [1--8] for ProCommander® LX or PHX only.	!cfm28<10# or !cfm28>100# !cfm0<5# or !cfm0>50# !cfm32<8.5# or !cfm32>85# !cfm28<10:1# or !cfm28>100:1#	(ProCommander® LX: all channels). Fade to volume level 28 with time 10 seconds. 10 seconds are calculated from 0 to 31. Fade volume to level 0 with time 5 seconds. 5 seconds are calculated from 0 to 31. Fade to level stored in EEProm with time 8.5 seconds. Fade to volume level 28 with time 10 seconds at audio output 1.
!cip..#	Change IP-address	IP-Address	!cip10.0.0.100#	temporarily change of IP Adress.
!cmb..#	Change master bass	Master Bass [0 -- 15]]; Channel number [1--8] for ProCommander® LX only.	!cmb10# !cmb5:3#	new Master Bass value is 10; ProLX: all channels are set to bass value 10. ProLX: set bass value 5 on audio channel 3.

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!cmt..#	Change master treble	Master Treble [0 -- 15]]; Channel number [1--8] for ProCommander® LX only.	!cmt10# !cmt5:3#	new Master Treble value is 10; ProLX: all channels are set to treble 10. ProLX: set treble value 5 on audio channel 3.
!cmv..#	Change master volume	Master Volume [0 -- 31] value 32: stored level in EEProm +: increase one step -: decrease one step Channel number [1--8] for ProCommander® LX only.	!cmv25# !cmv32# !cmv+# !cmv-# !cmv+:1# !cmv25:1#	temporarily change of Master Volume level to level 25; (ProLX: all channels). Change master volume to level stored in EEProm; (ProLX: all channels). Increase master volume one step; (ProLX: all channels). Decrease master volume one step; (ProLX: all channels). Increase master volume one step on audio output 2; (ProCommander® LX only). Change of Master Volume level to level 25 on audio channel 1. (ProCommander® LX only).
!cpo1..#	Change port1 -- port4	Port [0000 -- 65534]	!cpo5555#	temporarily change of Port.
!csm..#	Change sub-net mask	Sub-Net Mask	!csm255.255.255.0#	temporarily change of Sub-Net-Mask.
!ctc..#	Create Time Code	Time Code format: 0: stop time code create 1: 24 frames per second 2: 25 fames per second 3: 30 frames per second	!ctc1# !ctc2# !ctc3# !ctc0# !ctc3=00:01:02.10#	Create 24 fps time code. Create 25 fps time code. Create 30 fps time code. Stop create time code. Create 30fps time code and start with 00hour, 01minutes, 02seconds and 10frames.
!ctm..#	Change scheduler time	time in format hh:mm.ss hh: hour from 00 to 23 mm: minute from 00 to 59 ss: seconds from 00 to 59	!ctm=01:30.15#	Change scheduler time to 1h, 30 minutes and 15 seconds
Run commands:				
!rcs..#	Continue show	Show number, 0= any show	!rcs1# !rcs0#	Continue show 1 Continue any paused show
!rps..#	Pause show	Show number, 0= any show	!rps1# !rps0#	Pause show 1. Pause any current running show.
!rpx..#	Start polyphonic show in restart mode	Show number	!rpx6#	Only available for Pro Commander PHX. Audio of that show will be mixed to audio of audio channel 1. Restart mode: The new show will be started or if it is running, it will be restarted. Other perhaps running shows continue running.
!rsa..#	Start show in add mode	Show number	!rsa3#	Add mode: if the new show is not running, it will be started additionally to perhaps running shows. Attention: Up to 20 shows depending on content and complexity of each show. It needs to be tested.
!rse..#	End show	Show number	!rse7#	End: The show will be stopped.
!rsi..#	Start show in interrupt mode	Show number	!rsi5#	Interrupt mode: All shows are stopped, the new show will be started.
!rsn..#	Start show in normal mode	Show number	!rsn2# !rsn:\SHOWS\002Show.wm1#	Normal mode: a showstart is only possible, if no show is running.
!rsr..#	Start show in restart mode	Show number	!rsr6#	Restart mode: The new show will be started or if it is running, it will be restarted. Other perhaps running shows continue running.

ENTERTAINMENT POWERED BY WEIGL CONTROL

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info
!rss..#	Start show in shuffle mode	Show number range	!rss3_10#	Shuffle mode: one of the shows between 3 and 10 will be started. Shows are handled like restart. Means, if show is running, it will be restarted. Other running shows continue.
!rst..#	Start show in terminate mode	Show number	!rst4#	Terminate mode: All shows with a different number to the new show are terminated and the new show will be started. If the new show is allready running, it continues.
!rsva..#	Start show in add mode based on variable content	Variable number	!rsva5#	Start show which is equal to the content of variable 5 in add mode. E.g. if variable 5 has the value 10, then show 10 will be started in add mode.
!rsvt…#	Start show in terminate mode based on variable contenct	Variable number	!rsvt6#	Start show which is equal to the content of variable 6 in terminate mode. E.g. if variable 6 has the value 8, then show 8 will be started in terminate mode.
!rtc..#	Sync to external time code	ON/OFF: 0=OFF, 1=ON Time: 0--600 seconds in 0.01 steps. Values between 2 and 60000 (=600sec).	!rtc1# !rtc100# !rtc0#	Sync to external time code enabled Sync to external time code, but if no time code comes in, it switchs to internal clock after 1 second. Sync to external time code disabled, show runs with internal clock.
Loop Run commands:	**Firmware > 1.75 required!**			
!rsal..#	Start show in add mode and **run in loop**	Show number	!rsal3# !rsal:\SHOWS\003Show.wm1#	Add mode: if the new show is not running, it will be started additionally to perhaps running shows. Attention: Up to 20 shows depending on content and complexity of each show. It needs to be tested. **If once started, show runs in loop!**
!rsil..#	Start show in interrupt mode and **run in loop**	Show number	!rsil5# !rsil:\SHOWS\005Show.wm1#	Interrupt mode: All shows are stopped, the new show will be started. **If once started, show runs in loop!**
!rsnl..#	Start show in normal mode and **run in loop**	Show number	!rsnl2# !rsnl:\SHOWS\002Show.wm1#	Normal mode: a showstart is only possible, if no show is running. **If once started, show runs in loop!**
!rsrl..#	Start show in restart mode and **run in loop**	Show number	!rsrl6# !rsrl:\SHOWS\006Show.wm1#	Restart mode: The new show will be started or if it is running, it will be restarted. Other perhaps running shows continue running. **If once started, show runs in loop!**
!rstl..#	Start show in terminate mode and **run in loop**	Show number	!rstl4# !rstl:\SHOWS\004Show.wm1#	Terminate mode: All shows with a different number to the new show are terminated and the new show will be started. If the new show is allready running, it continues. **If once started, show runs in loop!**
Execute commands:				
!eao#	Switch all off	no parameter	!eao#	Switch all channels off. Digital channels are set to 0, Analog channels fade to 0 based on the EaseInTime. This command is also sent via daisy chain to the connected Pro I/O™ devices.
!eas..#	And status at open collector	Open collector output channels, max. 16 outputs; left alignement. 1: additionally clear, 0: channel not affected. Not addressed channels are not affected.	!eas1001# !eas10011# !eas0001# !eas1111111111111111# !eas0000000000000000# !eas1111000001000101#	Clear output 1 and 4; output 2 and 3 is not affected; all other channels are not affected. Clear output 1,4 and 5; output 2 and 3 is not affected; all other channels are not affected. Clear output 4; outputs 1,2,3 and 5 - 16 are not affected. Clear all 16 open collector outputs. no change on all 16 open collector outputs. Clear output 1,2,3,4,10,14 and 16; outputs 5,6,7,8,9,11,12,13 and 15 are not affected.

ENTERTAINMENT POWERED BY WEIGL CONTROL

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info
!edf..#	Fade DMX value (range)	DMX (start) channel: 1..512 optional DMX end channel: 1..512 Value: 0..255 Time: in 1/10 sec steps from 0 - 600 seconds Format: s.t	!edf1=20<10# or !edf1=20>100# !edf5_20=255<5.8# or !edf5_20=255>58#	Fade DMX channel 1 from current value within 10 seconds to value 20. Fade all DMX channels from 5 to 20 from current value within 5.8 seconds to value 255.
!eds..#	Set DMX values **Maximum RS232 characters 150!** **Maximum IP characters 512!**	DMX start channel: 1..512 Values: 0..255 seperated by a comma	!eds20:5,100,30,40,255#	Set DMX channel 20 to value 5, 21 to 100, 22 to 30, 23 to 40 and 24 to 255. **If all the channels does not fit within the character limit, several consecutive commands with different address settings must be sent.**
!edv..#	Set DMX value (range)	DMX (start) channel: 1..512 optional DMX end channel: 1..512 Value: 0..255	!edv10:255# !edv10_200:50# !edv2+# !edv2-# !edv6+10# !edv6-20# !edv10_200+# !edv10_200-# !edv10_200+10# !edv10_200-10#	Set DMX channel 10 to value 255. Set all DMX channels from 10 to 200 to value 50.
!eea..#	And status at external Pro I/O™ device	Open collector output channels, max. 16 outputs; left alignement. 1: additionally clear, 0: channel not affected. Not addressed channels are not affected.	!eea1=1001# !eea2=10011# !eea3=0001# !eea4=1111111111111111# !eea5=1000000000000011# !eea6=1111000001000101#	Pro I/O™ device 1, outputs 1-16: Clear output 1 and 4; Pro I/O™ device 1, outputs 17-32: Clear output 17,20 and 21; Pro I/O™ device 2, outputs 1-16: Clear output 4; Pro I/O™ device 2, outputs 17-32: Clear outputs 17-32. Pro I/O™ device 3, outputs 1-16: Clear outputs 1, 15 and 16. Pro I/O™ device 3, outputs 17-32: Clear output 17,18,19,20,26,30 and 32.
!eeo..#	Or status at external Pro I/O™ device	Open collector output channels, max. 16 outputs; left alignement. 1: additionally set, 0: channel not affected. Not addressed channels are not affected.	!eeo1=1001# !eeo2=10011# !eeo3=0001# !eeo4=1111111111111111# !eeo5=1000000000000011# !eeo6=1111000001000101#	Pro I/O™ device 1, outputs 1-16: set output 1 and 4; Pro I/O™ device 1, outputs 17-32: Set output 17,20 and 21; Pro I/O™ device 2, outputs 1-16: Set output 4; Pro I/O™ device 2, outputs 17-32: Set outputs 17-32. Pro I/O™ device 3, outputs 1-16: Set outputs 1, 15 and 16. Pro I/O™ device 3, outputs 17-32: Set output 17,18,19,20,26,30 and 32;
!ees..#	Set status at external Pro I/O™ device	Open collector output channels, max. 16 outputs; 1: set, 0: clear; left alignement. The most left 0 or 1 is channel 1. Not addressed channels are not affected. No gap possible.	!ees1=1001# !ees2=10011# !ees3=0001# !ees4=1111111111111111# !ees5=0000000000000000# !ees6=1111000001000101#	Pro I/O™ device 1, outputs 1-16: set output 1 and 4; clear output 2,3 and 5-16; Pro I/O™ device 1, outputs 17-32: Set output 17,20 and 21; clear output 18,19 and 22-32. Pro I/O™ device 2, outputs 1-16: Set output 4; clear output 1,2,3 and 5-16. Pro I/O™ device 2, outputs 17-32: Set outputs 17-32. Pro I/O™ device 3, outputs 1-16: Clear outputs 1-16. Pro I/O™ device 3, outputs 17-32: Set output 17,18,19,20,26,30 and 32; clear output 21-25,27-29 and 31.

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info
!efl..#	Fade to level in time (analog or servo output)	Output channel: 1..8, where: 1..4 = analog output 1..4, 5..8 = R/C-servo 1..4. Level: 10bit resolution (0-1023): delimiter %: value between 0% and 100%, delimiter =: value between 0 and 1023. Time: in 1/10 sec steps from 0 - 600 seconds Format: s.t	!efl1%20<2.5# or !efl1%20>25# !efl1_4%50<20.8# or !efl1_4%50>208# !efl3=720<200# or !efl3=720>2000# !efl7%20<10# or !efl7%20>100# !efl5_8%0<1# or !efl5_8%0>10#	Fade analog output 1 to level 20% in 2.5 seconds. Fade analog outputs 1 to 4 to level 50% in 20.8 seconds. Fade analog output 3 to level 720 in 200 seconds. Turn R/C-servo 3 to 30%-position in 10 seconds. Turn R/C-servo 1 to 4 to 0-position in 1 second.
!ekm..#	Set key mask	Key mask; left alignment	!ekm1111111111111111# !ekm1001# !ekm0000000000000000#	All 16 inputs are enabled. Input 1 and 4 are enabled, 2 and 3 are disabled. The remaining inputs are not affected. All 16 inputs are disabled.
!eos..#	Or status at open collector	Open collector output channels, max. 16 outputs; left alignement. 1: additionally set, 0: channel not affected. Not addressed channels are not affected.	!eos1001# !eos10011# !eos0001# !eos1111111111111111# !eos0000000000000000# !eos1111000001000101#	Set output 1 and 4; output 2 and 3 is not affected; all other channels are not affected. Set output 1,4 and 5; output 2 and 3 is not affected; all other channels are not affected. Set output 4; outputs 1,2,3 and 5 - 16 are not affected. Set all 16 open collector outputs. no change on all 16 open collector outputs. Set output 1,2,3,4,10,14 and 16; outputs 5,6,7,8,9,11,12,13 and 15 are not affected.
!epf..#	PWM output: Fade to level in time	Output channel: 1..8. Level: 10bit resolution (0-1023): delimiter %: value between 0% and 100%, delimiter =: value between 0 and 1023. Time: in 1/10 sec steps from 0 - 600 seconds Format: ss.t	!epf1%20<2.5# or !epf1%20>25# !epf1_4%50<20.8# or !epf1_4%50>208# !epf3=720<200# or !epf3=720>2000# !epf7%20<10# or !epf7%20>100# !epf5_8%0<1# or !epf5_8%0>10#	Fade PWM output 1 to level 20% in 2.5 seconds. Fade PWM outputs 1 to 4 to level 50% in 20.8 seconds. Fade PWM output 3 to level 720 in 200 seconds. Fade PWM output 7 to 30%-position in 10 seconds. Fade PWM output 5 to 8 to 0-position in 1 second.
!epl..#	PWM output: Set level	Output channel: 1..8. Level: 10bit resolution (0-1023): delimiter %: value between 0% and 100%, delimiter =: value between 0 and 1023. delimiter +: add value. delimiter -: subtract value.	!epl1%20# !epl1_4%50# !epl3=720# !epl7%30# !epl5_8%0# !epl2+# !epl2-# !epl6+10# !epl6-20#	Set PWM output 1 to level 20%. Set PWM outputs 1 to 4 to level 50%. Set PWM output 3 to level 720. Set PWM 3 to 30%. Set PWM 5 to 8 to 0. Increment PWM output 2. Decrement PWM output 2. Add 10 to current value PWM output 6; maximum limit: 1023 Subtract 20 from current value of PWM output 6; lower limit: 0
!esa..#	Send serial ASCII Command to all network devices **Maximum RS232 characters 150!** **Maximum IP characters 256!**	Data to be sent	!esa:"!efl1_8=0<10#"#	Send command !efl1_8=0<10# to all network devices. Result: Fade to 0 in 10 seconds of all analog channels in the network system.
!esd..#	Send serial Data **Maximum RS232 characters 150!** **Maximum IP characters 256!**	Data to be sent	!esd1:"Hello World"# !esd2:0xFF 0x02 0x03 0x04 0xAA#	Send 11 ASCII-characters: Hello World on RS232-1 Send 5 HEX-Bytes: FF 02 03 04 AA on RS232-2

ENTERTAINMENT POWERED BY WEIGL CONTROL

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info
!esl..#	Set level at analog or servo output	Output channel: 1..8, where: 1..4 = analog output 1..4, 5..8 = R/C-servo 1..4. Level: 10bit resolution (0-1023): delimiter %: value between 0% and 100%, delimiter =: value between 0 and 1023. delimiter +: add value. delimiter -: subtract value.	!esl1%20# !esl1_4%50# !esl3=720# !esl7%30# !esl5_8%0# !esl2+# !esl2-# !esl6+10# !esl6-20#	Set analog output 1 to level 20%; ~-> 2V at a range from 0V--10V. Set analog outputs 1 to 4 to level 50%; ~-> 5V at a range from 0V--10V. Set analog output 3 to level 720; ~-> 7V at a range from 0V--10V. Turn R/C-servo 3 to 30%-position. Turn R/C-servo 1 to 4 to 0-position. Increment analog output 2. Decrement analog output 2. Add 10 to current value of R/C-servo 2; maximum limit: 1023 Subtract 20 from current value of R/C-servo 2; lower limit: 0
!ess..#	Set status at open collector	Open collector output channels, max. 16 outputs; 1: set, 0: clear; left alignement. The most left 0 or 1 is channel 1. Not addressed channels are not affected. No gap possible.	!ess1001# !ess10011# !ess0001# !ess1111111111111111# !ess0000000000000000# !ess1111000001000101#	Set output 1 and 4; clear output 2 and 3; other channels are not affected. Set output 1,4 and 5; clear output 2 and 3; other channels are not affected. Set output 4; clear output 1,2, and 3; other channels are not affected. Set all 16 open collector outputs. Clear all 16 open collector outputs. Set output 1,2,3,4,10,14 and 16; clear output 5,6,7,8,9,11,12,13 and 15.
Mask commands:				
!eam..#	Set analog mask	Analog mask for max. 16 outputs; 1: not masked, 0: masked, x:unchanged; left alignement. All masked channels are switched off! The left most 0 or 1 is channel 1. Not addressed channels are not affected. No gap	!eam0x00x00000000000# !eam1001#	Analog outputs 1,2,3 and 6-16 are masked. 2 and 5 stay unchanged. No further commands are mapped to the outputs. Analog output 2 and 3 are masked, 1 and 4 are not masked. The remaining outputs are not affected. No further commands are mapped to output 2 and 3.
!edm..#	Set digital mask	Digital mask for max. 16 outputs; 1: not masked, 0: masked, x:unchanged; left alignement. The left most 0 or 1 is channel 1. Not addressed channels are not affected. No gap allowed.	!edm0x00x00000000000# !edm1001#	Outputs 1,2,3 and 6-16 are masked. 2 and 5 stay unchanged. No further commands from PC or show are mapped to the outputs. This allows direkt control of outputs via inputs regardless of show content. Output 2 and 3 are masked, 1 and 4 are not masked. The remaining outputs are not affected. No further commands are mapped to output 2 and 3. This allows direkt control of outputs 2 and 3 via inputs regardless of show content.
!emo..#	Set digital mask and switch off	Device Sub-ID Address; Digital mask for max. 16 outputs; 1: not masked, 0: masked, x:unchanged; left alignement. All masked channels are switched off! The left most 0 or 1 is channel 1. Not addressed channels are not affected. No gap	!emo0x00x00000000000# !emo1001#	Outputs 1,2,3 and 6-16 are masked and switched off. 2 and 5 stay unchanged. No further commands are mapped to the outputs. Output 2 and 3 are masked and switched off, 1 and 4 are not masked. The remaining outputs are not affected. No further commands are mapped to output 2 and 3.
Play soundtrack commands:				
!phv..#	Polyphonic Volume	Polyphonic Volume [0 -- 31];	!phv0# !phv31#	Mute of polyphonic channel. Maximum volume of polyphonic channel.
!phx..#	Activate Polyphonic	0: off for both channels 1: mix channel 2 to channel 1 2: mix channel 1 to channel 2	!phx0# !phx1# !phx2#	Polyphonic operation is switched off. Audio of channel 2 is mixed to channel 1. Audio of channel 1 is mixed to channel 2.
!ppe#	Playlist end	Stops current running playlist after the end of the current running track.	!ppe#	Current running track will be finished, then the playlist stops.
!ppl..#	Play playlist in loop	folder index x: value between 0 and 999 audio channel [1..8]. Only for ProCommander® LX available.	!ppl001# !ppl999:1# !ppl010:2#	play all tracks in folder PLAYL001 in loop on audio output 1. Track order: as stored in list. Play all tracks in folder PLAYL999 in Loop on audio output 1. Track order: as stored in list. Play all tracks in folder PLAYL010 in Loop on audio output 2. Track order: as stored in list.

ENTERTAINMENT POWERED BY WEIGL CONTROL

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info
!ppr..#	Play playlist in loop, random (shuffle) mode	folder index x: value between 0 and 999 audio channel [1..8]. Only for ProCommander® LX available.	!ppr001# !ppr999:1# !ppr010:2#	play all tracks in folder PLAYL001 in loop on audio output 1. Track order: random mode. Play all tracks in folder PLAYL999 in Loop on audio output 1. Track order: random mode. Play all tracks in folder PLAYL010 in Loop on audio output 2. Track order: random mode.
!pps#	Playlist stop	Stops current running playlist	!pps#	Stops immediately current running playlist
!psc#	Continue track	Continues the paused track	!psc#	Current track will be continued.
!psp#	Pause track	Pause the current running track	!psp#	Current running track will be paused.
!pst..#	Play single track	Time: 0--25.5 seconds in 0.1 steps time is calculated for the full range from 0 to 31. If less steps are required, the end value is reached in a shorter time! \folder\filename: 8.3 name syntax	!pst\AUDIO\001TRACK.OGG# !pst<5:\AUDIO\002TRACK.OGG# or !pst>50:\AUDIO\002TRACK.OGG# !pst<25.5:003TRACK.OGG# or !pst>255:003TRACK.OGG#	play single track "001TRACK.OGG" of folder AUDIO. Only one folder supported! If a soundtrack is running, it fades out with time 5 seconds and then TRACK002.OGG of folder AUDIO starts. If no soundtrack is running TRACK002.OGG starts immediately. If a soundtrack is running, it fades out with time 25.5 seconds and then starts 003TRACK.OGG of root directory. If no soundtrack is running 003TRACK.OGG starts immediately.
!pts#	Stop track	Stop current running track audio channel [1..8]; only available for ProLX	!pts# !pts:1#	All current running tracks will be stopped. Track on audio output 1 will be stopped.
Motor commands:				
!acbX#	Set CAN baudrate	X: baudrate of CAN motor [50000, 125000, 250000, 500000, 1000000]	!acb1000000#	Set baudrate of CAN motor to 1000000.
!acc...#	Send CAN SDO message	Refer to CANOpen DS 301 implementation guide	!acc601.22.00.18.01.00.00.00.00#	01 -> motor ID 22 -> write/read command 00 -> no byte of register 18 -> high byte of register 01 -> sub index 00.00.00.00 -> value for all please refer to implementation guide
!acmX:Y#	Monitor CAN message	X: monitor mode [0..9]: 0: disable 1: monitor all initialization queues, send and receive 2: monitor all initialization send queues 3: monitor all initialization receive queues 4: monitor all queues 5: monitor all send queues 6: monitor all received queues 7: monitor RPDO messages 8: monitor TPDO messages 9: monitor CANbus errors Y: [0..1]: 0: disable 1: enable	!acm1:1#	Enable monitoring of all initialization queues (send and receive).
!acnX#	Set CAN bus nodes	X: number of CAN motors [1..16]	!acn8#	Set number of CAN bus nodes to 8 to adress 8 CAN motors.
!acsX#	Set CAN sync time	X: sync time in milliseconds	!acs10#	Sync time in 10 seconds for CAN motors.

ENTERTAINMENT POWERED BY **WEIGL** CONTROL

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info
!acvX#	Send CAN statusword to variable	X: [0..1]: 0 = OFF; 1 = ON Variables from 231 to 246 contain statusword of CAN Motor 1-16 Motor ID 1 = Variable 231 […] Motor ID 16 = Variable 246 Recommendation: Display variable valus in HEX in Configurator	!acv1# !acv0#	Activate sending statusword from CAN motor to variable. If a motor with the ID 1 is connected and working the statusword is sent to variable 231, if no motor is connected then the variable value is 0. Deactivate sending statusword from CAN motor to variable.
!adcX:Y.Z#	Send direct Dynamixel command to Dynamixel servo	X: motor ID Y: servo address Z: Dynamixel command	!adc1:30.2=500# !adc1:64.1=1#	Send to dynamixel motor number 1 at start servo adress 30, 2 bytes with value 500. Please refer to motor manual. Send to dynamixel motor number 1 for Torque On/ Off where address is 64 and size is 1.
!aetX:Y<Z#	Set ease-in threshold CAN motor	X: motor ID [1..16] Y: threshold value [0..10000] 0: disables the threshold 0..10000: resolution in 1/100 in percent steps. Z: Ease-in time. Resolution in 1/100 seconds.	!eat3:1500<100#	If position change is above the threshold of 15%, then the movement is a fade within 1 seconds on CAN motor with the ID 3.
!ahoX:Y# !ahoX:Y:Z#	Motor homing	X: motor ID Y: homing mode, refer to motor manual Z: [0..1]: wait for homing 0: homing mode starts 1: initialize motor and wait for additional homing command (!amg…#)	!aho1:1# !aho2:1:1#	Start homing of motor with the ID 1. Enable and wait for motor homing on motor with the ID 2.
!aipX:Y:Z:A#	Define settings for network controlled motors	X: IP address, of the first motor (ascending ip address for other motors needed, only send first motor IP address) Y: port, of all motors Z: motor type [1..2]: 1: Muse 2: CoolMuscle A: number of motors [1..16]	!aip10.0.0.120:1001:2:8#	Define for all Cool Muscle motors which are controlled via network and have the port number 1001. It will be only the first motor with the IP address 10.0.0.120 addressed directly, all other connected motors have to have an ascending IP address.
!amgX:Y#	Continue start homing	X: motor ID Y: [0..1]: idle mode 0: continue wait 1: start homing	!amg1:1#	Start homing of motor with the ID 1, only if command !aho1:1:1# has been set before.

ENTERTAINMENT POWERED BY **WEIGL** ⊠ CONTROL

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info
!amhX:Y#	Motor halt	X: motor ID Y: motor stop/ reset mode, depends on motor type [1..7] & 255: 1: controlword value 0x06: Shutdown, motor stops, no holding force at the motor. 2: controlword value 0x07: Switch ON, motor stops, no holding force at the motor. 3: controlword value 0x0F: Switch ON, enable operation, no movement. 4: controlword value 0x1F: Enable operation, start movement. 5: controlword value 0x100: Enabling halt function. 6: controlword value 0x80: Fault reset, no influence on motor. 7: Run state machine with controlword values 0x06, 0x07, 0x1F. Enable motor and start movement. 255: Full motor reset and motor stop.	!amh1:1#	Shut down and stop the motor with the motor ID 1.
!ammX#	Set number of servo motors	X: number of servo motors [1..16]	!amm5#	Set number of servo nodes to 5 to adress 5 servo motors.
!ampX:Y#	Set max position for Dynamixel servo motor, necessary if motor runs in multi-turn mode to allow position values beyond the Dynamixel default maximum postion	X: motor ID Y: max. position of motor, please refer to motor manual	!amp2:6000#	Set maximum position of Dynamixel servo motor with the ID 2, which runs in multi-turn mode to 6000 to allow position value beyond the Dynamixel default maximum position.
!amrX#	Servo motor position repeat	X: defines the delay between the commands which are sent to the motors [2..100]: value in milliseconds	!amr10#	Set a message delay of 10 milliseconds for servo motors.
!amtX#	Activate multi-turn mode for Dynamixel servo motor	X: number of servo motors [1..16]: 0: deactivate multi-turn mode 1: activate multi-turn mode	!amt000111# !amt0000000000000001#	Deactivate multi-turn mode on Dynamixel servo 1, 2, 3 and activate multi-turn mode on motor number 4, 5 and 6. Disable multi-turn mode on Dynamixel servo number 1 to 15 and activate mulit-turn mode on servo number 16.
!aplX:Y/Z#	Set position limits on CAN motors	X: motor ID Y: min. position, refer to motor manual Z: max. position, refer to motor manual	!apl1:-1000/+1000#	Set the minimum position to -1000 and maximum position +1000 on CAN motor with the ID 1.
!arvX:Y.Z=V#	Read Dynamixel servo register and store it in a variable	X: motor ID Y: address in servo Z: number of bytes relatet to that register V: variable number used for storing the value	!arv3:146.1=15#	Read 1 byte of the servo address 146 of a dynamixel motor with the motor ID 3 and store the value in variable 15.
!asnX:Y#	Set servo motor min position	X: motor ID Y: min. position, refer to motor manual	!asn1:900#	Set minimum position of servo motor with the ID 1 to 900.

ENTERTAINMENT POWERED BY WEIGL CONTROL

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info
!aspX#	Set CAN protocol	X: driver for CAN motors [1..11]: 1: HDY old 2: QuickSilver 3: Muse 4: CANOpen 5: Elmo 6: Applied Motion 7: Kollmorgen 8: Nanotec 9: Copley 10: Maxon 11: JMC 12: Harmonic Drive 13: Exlar 14: Festo	!asp2#	Set CAN driver for Quicksilver motors.
!assX:Y#	Set servo speed for CAN motors	X: motor ID Y: servo speed, refer to motor manual	!ass1:1000#	Set servo speed 1000 on motor number 1.
!asvX:Y#	Set CAN motor velocity	X: motor ID [1..16] Y: velocity value accordingly to the documentation of the servo drive device	!asv1:1000#	Set velocity speed to 1000 on motor number 1.
!asxX:Y#	Set servo motor max position	X: motor ID Y: max. position of motor, please refer to motor manual	!asx1:2000#	Set maximum position of servo motor to 2000.
Display commands:				
!mmd100:…#	Monitor Display message	Display time: 0..2,54 seconds Value 255: Permanent display of message Message for Device display \X: X is variable [1..250], its value will be displayed.	!mmd100:"Hello World!"# !mmd255:"Content of V1=\1"#	Displays "Hello World!" for one second. Displays the value of variable 1 permanently.
Network commands:				
!nai#	Network allowed IP	Request setting of allowed IP-Addresses in network	!nai#	Get list of IP-addresses of all devices, which are allowed to send an ASCII-message, which is checked for Control.ini settings.
!naiX:YY.YY.YY.YY#	Network allowed IP (define up to 5 devices - whitelist - which are allowed to send string messages to ProCommander® to trigger events in Control.ini)	X: 1..5: number of IP-address YY: IP-address	!nai1:10.0.0.214#	The device with the IP-address 10.0.0.214 is able to send an ASCII-message, which is checked for Control.ini settings. The corresponding command in the Control.ini is: !sStartShow1!rsn1# If the device with the IP-addrss 10.0.0.214 sends the string (!s) "StartShow1", the command run show number 1 in normal mode (!rsn1#) will be executed. ATTENTION - the string is case sensitive and only regular ASCII characters are allowed.
!naoX:Y:Z#	Network-Art-Net Out For ProCommander® Series & ProCommander® X Series	Activate/ Deactivate Art-Net Out X: IP address for destination device Y: [0..1]: 0 = OFF; 1 = ON Z: Art-Net universe [0..127]	!nao10.0.0.101:1:4# !nao10.0.0.101:0:3#	Activates the output for DMX via Art-Net. ArtNet is sent to Art-Net Universe 4 with IP-address 10.0.0.101. Deactivates the output for DMX via Art-Net. Stops Art-Net for Art-Net Universe 4 with IP-address 10.0.0.101. Port is Art-Net default port: 6454

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Command	Name	Parameter	Example-Explanation	Info
!narX#	Art-Net repeat	X: Repeat function [0..255] 0: Queue is sent on a change within the ArtNet universe 1..255: define the interval time to repeat the queue even no change with the ArtNet universe is happening	!nar0# !nar20#	Send the DMX signal of a ProCommander® within the Art-Net universe, if it's changing. Repeat the DMX signal within 20 milliseconds.
!nauX:Y#	Art-Net-Universe Read-In ON/OFF	Activate/ Deactivate Art-Net Read-In X: Art-Net Universe [0..15] Y: ON/OFF: [1,0]	!nau1:1# !nau1:0#	Activates the Art-Net read in for Art-Net universe 1. Deactivates the Art-Net read in for Art-Net universe 1.
!nsaW:X:Y:Z#	Network sACN Universe IP ONLY for ProCommander® X Series	W: Pro I/O Sub-Device-ID [1..16] X: Destination IP address of sACN node Y: Port of sACN node Z: sACN Universe [0..255] = max. 256 sACN nodes ATTENTION - total number of max. 16 sACN Universes	!nsa5:10.0.0.120:5568:3#	ProIO-A5 mapped to sACN Universe 3 Activate sACN Universe 3 on sACN device with IP address 10.0.0.120 on port 5568.
!nsd…#	Network send data	Data to be sent, (ASCII and Hex-strings) @nothing or 1: Network port 1(ETHERNET) @2: Network port 2 >[1..4]: Network port 1 >[1..8]: Network port 2	!nsd10.0.0.110:5555:"Hello World"# or !nsd10.0.0.110:5555>1@1:"Hello World"# !nsd10.0.0.120:5556>1@1:"Network 1"# !nsd10.0.0.113:6454>8@2:"Network 2"#	ProCommander® sends "Hello World" to a network device with IP-Address 10.0.0.110 at port 5555. ProCommander® sends on port 1 (>1) via network port 1 (@1) "Network 1" to a network device with IP-Address 10.0.0.120 at port 5556. ProCommander® sends on port 8 (>8) via network port 2 (@2) "Network 2" to a network device with IP-Address 10.0.0.113 at port 6454.
!nstX#	Network send time code	X: [0..1]: 1: start time code send; 0: stop time code send.	!nst1#	Start time code read. Format ASCII 01:02:03.04 (=1 hour, 2 minutes, 3 seconds, 4 frames) If this command is sent via RS232-1, time code comes back on RS232-1. If this command is sent via USB, time code comes back on USB. If this command is sent via network, time code is sent back to that IP address and port, where the command comes from.
!ntp…#	TCP send data	Destination IP-Address of the connected device, TCP port on which the device is listening,	!ntp:10.0.0.160:55057:"Hello World" 0x0D#	ProCommander® sends Hello World<CR> to the device with ip-address 10.0.0.160 and port 55057.
!nuiW:X:Y:Z#	Network Art-Net Universe IP ONLY for ProCommander® X Series	W: Pro I/O Sub-Device-ID [1..16] X: Destination IP address of Art-Net node Y: Port of Art-Net node Z: Art-Net Universe [0..255] = max. 256 Art-Net nodes ATTENTION - total number of max. 16 Art-Net Universes	!nui7:10.0.0.31:6454:8#	ProIO-A7 mapped to Art-Net Universe 8 Activate Art-Net Universe 8 on Art-Net device with IP address 10.0.0.31 on port 6454.
!nul…#	UDP-MAC-LifeTime	Time in 1/100 seconds; Value: 100 -- 60000 Range: 1 to 600 seconds	!nul1000#	Set UDP-MAC-LifeTime to 10 seconds. Factory default: 18000 -> 3 minutes.
!nwd…#	Network watchdog	Toggle info 0/1; Time out in 1/100 seconds; Range: 0.02 to 655,35 seconds Show number.	!nwd1# !nwd0# !nwd100:10# !nwd0:0#	Alive query for ProCommander®. ProCommander® sends back: nwd0 <CR> Alive query for ProCommander®. ProCommander® sends back: nwd1 <CR> After time out start show: start show 10 one second after receive of this command. For avoiding time out, this command (!nwd100:10#) has to be sent periodically within the timeout period. This command can also be used for delayed show start. The start mode is ADD. The command !nwd0:0# deactivates an activated watchdog timer.

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info
!nwl:mac#	Wake On Lan	mac: Mac address of device in format: 00-1A-2B-3C-4D-5E	!nwl:00-04-A3-04-76-F4#	Wakes up the device with the mac address: 00-04-A3-04-76-F4
Option commands:				
!oaiX#	Enable / disable analog input	X=1: ON; X=0: OFF.	!oai1# !oai0#	Analog read in is enabled. This is a permanent setting. Analog read in is disabled. This is a permanent setting.
!oavX:Y#	Map analog input to variable	X: analog input [1..8]; Y: variable [1..70].	!oav1:1# !oav3:20#	Value of analog input 1 is copied into variable 1. Value range 0-1023. Value of analog input 3 is copied into variable 20. Value range 0-1023.
!ociX#	Send Pro I/O™ cues over IP	X=1: ON; X=0: OFF.	!oci1# !oci0#	Send Pro I/O™ cues via network and via WEM-NET. Send Pro I/O™ cues only via WEM-NET.
!odiYYY....YYY#	Invert digital channels	Y=0: normal output Y=1: inverted output	!odi110011# !odi1111001100000001# !odi0000000000000000#	Invert digital channels 1,2 and 5,6. Invert digital channels 1,2,3,4,7,8, and 16. Invert off for all digital channels.
!oeaX#	Enable/ disable audio amplifier	X=1: ON; X=0: OFF.	!oea1# !oea0#	Enable audio amplifier for loud speaker on a ProCommander® AX. Disable audio amplifier for loud speaker on a ProCommander® AX.
!oepX#	Enable/ diable PWM function on a open collector output	X=1: ON; X=0: OFF.	!oep1# !oep0#	Enable PWM and disable digital function on all open collector outputs of a ProCommander® AX.
!oet#	Get external timecode	Send to ProCommander®: Return from ProCommander®: ON/ OFF: Status of external timecode	!oet# Extern Time-Code in: ON Extern Time-Code in: OFF	Get time code from external source.
!oetX#	Enable/ disable external timecode	X=1: ON; X=0: OFF.	!oet1# !oet0#	Enable time code from external source. Disable time code from external source.
!oicX:Y#	Invert analog channel output	X: analog output [1..16]; Y=0: normal output Y=1: inverted output	!oic1:1# !oic15:1# !oic3:0#	Invert analog output of channel 1. Invert analog output of channel 15. Normal analog output of channel 3.
!oicX_Y:Z#	Invert range of analog/servo channel outputs	X: analog/ servo output start Y: analog/ servo output end Z: 0: normal output Z: 1: inverted output	!oic1_4:1# !oic1_4:0#	Invert analog outputs from channel 1 to 4. Normalize analog outputs from channel 1 to 4.
!oimX:Y#	Set input to MIDI	X=MIDI-channel; Y=Controler.	!oim1:2#	If an input is activated, a MIDI control change message is sent to MIDI channel 1 and Controler 2 + i via RS232-1. (MIDI cable KAT-PN/MIDI required). E.g.: if input 1 is activated, the MIDI message (hex) B1 03 7F is sent via RS232-1. If input 1 is released, the MIDI message (hex) B1 03 00 is sent via RS232-1.
!oioX:Y#	Map analog inputs to analog output 1:1	X: analog input [1..8]; Y: analog output [1..4].	!oio1:3#	Value of analog input 1 is mapped to analog output 3, whereby the value range of an analog input is 0-1023 and will be scaled up to a value range of analog output 0-65535.
!ojsX#	Enable/ disable joystick	X=1: ON; X=0: OFF.	!ojs1# !ojs0#	Enable joystick on ProCommander®. Disable joystick on ProCommander®.
!orpX#	Enable / disable run playlist	X=1: ON; X=0: OFF.	!orp1# !orp0#	Enable playlist function. This is a permanent setting. If enabled, all audio files in folder PLAYL000 are played after power up. Disable playlist function. This is a permanent setting.
!osp..#	Set Port number for IP-Messages from ProCommander®	1..4: Port number.	!osp3#	Set Port number 3 (default6454) as port, which is used for sending IP messages.
!ovuX#	Enable / disable VU-meter display	X=1: ON; X=0: OFF.	!ovu1# !ovu0#	Enable VU meter dislay during audio playback. This is a permanent setting. Disable VU meter display during audio playback. This is a permanent setting.

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Command	Name	Parameter	Example-Explanation	Info
!owmX:Y#	Enable/ disable wheel mode on a Dynamixel servo	X: motor id; Y=1: Enable; Y=2: Disable.	!owm1:1# !owm3:0#	Enable wheel mode for a Dynamixel servo with the motor ID 1. Disable wheel mode for a Dynamixel servo with the motor ID 3. ATTENTION! If the servo is also set to wheel mode, then you can turn in one direction, if the value is above 50% in the timeline and in the other direction, if the value is below 50%. The speed of the motor is controlled by the distance between a data point and the 50% position of the channel. The motor stands still at exact 50%, the maximum speed of a motor is at 0% or 100% depending on the direction.
Get commands:				
!gacX#	Get analog input	Send to ProCommander®: Return from ProCommander®:	!gac1# aiX:Y x: number from 1 to 16 represents the analog input.	ONLY FOR IP-FEEDBACK: Request command is required only one time, so that the ProCommander® knows, to which IP-address and port the monitoring of the input must be sent.
!gaiX#	Get analog input X	X: Value between 1 and 8	!gai3# ai3:1023	Get current analog value of input 3. Value of analog input 3 is 1023. Possible value range from 0 to 1023 (10bit).
!ganY#	Get analog min value of channel Y	Y: Value between 1 and 16	Send to ProCommander®: !gan1# Return from ProCommander®: amin1:100	Get analog min value of analog channel 1. Analog min value of analog channel 1 is 100. Possible value range from 0 to 1023 (10bit).
!gasX#	Get audio settings	X: Channelnumber X = 0: all channels, X = [1..8] designated channel	!gas0# !gas1#	Display audio settings of all audio outputs. Display audio settings of audio output 1.
!gaxY#	Get analog max value of channel Y	Y: Value between 1 and 16	Send to ProCommander®: !gax1# Return from ProCommander®: amax1:900	Get analog max value of analog channel 1. Analog max value of analog channel 1 is 900. Possible value range from 0 to 1023 (10bit).
!gbd#	Get DMX byte delay		Send to ProCommander®: !gbd# Return from ProCommander®: Current delay between each DMX byte.	The return value must be multiplied by 4μsec.
!gcdX#	Get current driver	Send to ProCommander®: Return from ProCommander®: X: RS232/RS485 port number X = [1..6] designated channel	!gcd1# RS232-1 DriverID: Dynamixel XM430	Get current driver status on RS232-1 port. Current driver on RS232-1 port is Dynamixel XM430.
!gci#	Get setting of IP Cue to Pro I/O dev		Send to ProCommander®: !gci# Return from ProCommander®: Current delay between each DMX byte.	The return value must be multiplied by 4μsec.
!gdf#	Get DMX frame rate		Send to ProCommander®: !gdf# Return from ProCommander®: Current DMX frame rate.	
!gdi#	Get digital invert status		!gdi# Digital-Invert: 1111000011001010	Get digital invert status of all digital channels. Channels 1,2,3,4,9,10,13 and 15 are inverted.
!gdm#	Get digital mask		Send to ProCommander®: !gdm# Return from ProCommander®: Current mask of digital outputs	!gdm#
!gic#	Get input on change	Send to ProCommander®: Return from ProCommander®:	!gic# DIxH x: number from 1 to 16 represents the digital input. Y: digital input is high.	ONLY FOR IP-FEEDBACK: Request command is required only one time, so that the ProCommander® knows, to which IP-address and port the monitoring of the input must be sent.
!gin#	Get Input Left alignment	Send to ProCommander®: Return from ProCommander®:	!gin# in:1000 0000 0000 0000 in:0111 1000 0001 0010	Get current status of the 16 remote input pins. Input 1 is active, all other are 0. There is NO space between the characters! Here it is just for a better overfew. Inputs 2,3,4,5,12 and 15 are active, all other are 0.

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Command	Name	Parameter	Example-Explanation	Info
!gms#	Get map settings		Send to ProCommander®: !gms# Return from ProCommander®: current setting of all map parameter.	
!gpa#	Get IP addresses and ports of all assigned Sub-Devices in the lookup table of the ProCommander®	Feedback of the lookup table: Pro I/O IP-Address: 1=10.0.0.201:5559 1: Sub-Device-ID 10.0.0.201: IP address of Sub-Device-ID with A1 5559: destination port (port on A1)	Send to ProCommander®: !gpa# Return from ProCommander®: IP addresses and ports from all Sub-Devices	!gpa# Pro I/O IP-Address: 1=10.0.0.201:5559 Pro I/O IP-Address: 2=10.0.0.201:5559 list of all 32 Pro I/O IP-Address settings will come back.
!gpa1#	Get internal lookup table of the ProCommander® and list all IP addresses and ports of assigned Sub-Devices (Pro I/O™ mode) (ProCommander® AX firmware V2.64 or later required)	Feedback of the lookup table: ProIO List Setting: U = V:W:X<Y>Z U: Sub-Device-ID V: IP address of Sub-Device-ID with A1 W: destination port (port on A1) X: source port (port on A:0) Y: MAC address of Sub-Device-ID with ID 1, if no device has been detected it is <FF-FF-FF-FF-FF-FF> Z: [1] = ARP request not successfull	Send to ProCommander®: !gpa1# Return from ProCommander®: All Sub-Devices in the network, which are connected and run in Pro I/O™ mode All network commands will be sent from port 6454 of the ProCommander® to a Sub-Device with the ID 1, via IP address 10.0.0.103 on port 5555 with the MAC address 70-B3-D5-01-D6-79. No Sub-Device with the ID 2, IP address 10.0.0.104 and port 5555 had been found (1)	!gpa1# ProIO List Setting: 1 = 10.0.0.103:5555:6454<70-B3-D5-01-D6-79>0 ProIO List Setting: 2 = 10.0.0.104:5555:0<FF-FF-FF-FF-FF-FF>1 list of all 32 Sub-Device settings will come back.
!gpa2#	Get internal lookup table of the ProCommander® and list all IP addresses and ports of external devices, which are addressed via a !nsd command (ProCommander® AX firmware V2.64 or later required)	Feedback of the lookup table: Ext. Dev. Settings: U = V:W:X<Y>Z U: ID V: IP address of external device W: destination port (port on external device) X: source port (port on A:0) Y: MAC address of external device with ID, if no device has been detected it is >00-00-00-00-00-00< Z: [1]: 1 = ARP request not successfull	Send to ProCommander®: !gpa2# Return from ProCommander®: All external devices in the network, which are addressed via a !nsd command All network commands will be sent from port 22202 of the ProCommander® to a external device with ID 1, via IP address 10.0.0.30 on port 62284 with the MAC address 44-8A-D7-5B-CA-EF. No external device with ID had been found.	!gpa2# ProIO List Setting: 1 = 10.0.0.30:62284:22202>44-8A-D7-5B-CA-EF<0 ProIO List Setting: 2 = 0.0.0.0:0:0>00-00-00-00-00-00<0 list of all 32 Sub-Device settings will come back.
!gpiX#	Get assigned Pro I/O™ IP address	X: Pro I/O ID	Send to ProCommander®: !gpi1# Return from ProCommander®: IP address assignment for Pro I/O™ X	!gpi1# Pro I/O™ IP-Address: 1=10.0.0.201
!gpoX#	Get assigned Pro I/O port	X: Pro I/O ID	Send to ProCommander®: !gpo1# Return from ProCommander®: IP address assignment for Pro I/O X	!gpo1# Pro I/O Port: 1=5559
!gps#	Get Pro I/O IP SUB-Address		Send to ProCommander®: !gps# Return from ProCommander®: IP address assignment for Pro I/O X	!gps# Pro I/O IP-Address: 1=10.0.0.201
!gsiX#	Get specific input X	X: Value between 1 and 16	!gsi5# in5:1	Get current status of input 5. Input 5 is active.
!gsl[:port]#	Get show list	Optional port.	Send to ProCommander®: !gsl# Return from ProCommander®: List of all shows on card in folder SHOWS. Send to ProCommander®: !gsl:5590#	Show list is sent back to the port, where the query came from. Either the long name, if defined, or the file name will be sent back. Show list is sent back to port 5590.

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!gsn[:port]#	Get show names	Optional port.	Send to ProCommander®: !gsn# Return from ProCommander®: List of all shows on card in folder SHOWS. Send to ProCommander®: !gsn:5590#	Show names are sent back to the port, where the query came from. Format: file name, space, long show name (if defined). E.g.: "001_SHOW.WM1 Main Show number 1" Show names are sent back to port 5590.
!gss[:port]#	Get show status	Optional port.	Send to ProCommander®: !gss# Return from ProCommander®: current status of all running shows. Send to ProCommander®: !gss:5590#	Show status is sent back to the port, where the query came from. Show status is sent back to port 5590.
!gtc#	Get time code		Send to ProCommander®: !gtc# Return from ProCommander®: current incomming time code.	Format of return string: TC=R00:01:02:70 if time code is running TC=P00:01:02:70 if last time code value is repeated. TC=O00:01:02:70 if there is no time code comming in. Time value is the last valid time code.
!gtm#	Get scheduler time		Send to ProCommander®: !gtm# Return from ProCommander®: current scheduler time.	The scheduler time is the run time, since the last card insertion. This time is the reference time for any time related commands in control.ini. Format of return string: TM=00:01:02:70
!gvcX#	Get variable content	X: number of variable (1-100) Returns content of variable with carriage return after the value	Send to ProCommander®: !gvc1# Return from ProCommander®: Current content of variable X	!gvc1# Var1=0#
!gvfX#	Get variable feedback	X: number of variable (1-100) Returns content of variable without carriage return after the value	Send to ProCommander®: !gvc1# Return from ProCommander®: Current content of variable X	!gvf1# Var1=20#
!gws#	Get watchdog show		Send to ProCommander®: !gws# Return from ProCommander®: number of watchdog show, which will be executed, if network watchdog times out.	
!gwt#	Get watchdog time out		Send to ProCommander®: !gwt# Return from ProCommander®: timeout time of network watchdog timer.	
Queue commands:				
!qmm#	Queue all analog MIN and MAX values	Send to ProCommander®: Return from ProCommander®:	!qmm# AMin01:0 AMax01:10000 AMin02:3500 AMax02:8000 till AMax16	Get values of all 16 analog MIN and MAX values. The MIN value of analog channel 1 is 0, which is 0%. The MAX value of analog channel 1 is 10000, which is 100%. The MIN value of analog channel 2 is 3500, which is 35%. The MAX value of analog channel 2 is 8000, which is 80%. list all MIN/ MAX values till channel 16.
Variable commands:				
!vccX&Y!...#	Variable compare constant. If condition is true, then the following command will be executed. Only one command allowed.	&: operator. Can be =,>,<,~ X: number of variable (1-70 RAM variable, 71-100 EEProm variable Y: constant value (0-65535)	!vcc2=10!rsn3# !vcc80>0!pst\AUDIO\TRACK001.OGG# !vcc10<20!edf1=20<10# !vcc5~1!esd2:"Hello World"#	If value of RAM-variable 2 equals 10, then start show number 5 in normal mode. If value of EEProm-variable 80 greater than 0, then play single track "TRACK001.OGG" of folder AUDIO. If value of RAM-variable 10 less than 20, then fade DMX channel 1 from current value within 10 seconds to value 20. If value of RAM-variable 5 unequal to 1, then send "Hello World" on serial port RS232-2.

Command	Name	Parameter	Example-Explanation	Info
!vcvX&Y!...#	Variable compare variable. If condition is true, then the following command will be executed. Only one command allowed.	&: operator. Can be =,>,<,~ X: number of variable (1-70 RAM variable, 71-100 EEProm variable Y: constant value (0-65535)	!vcv2=10!rsn3# !vcv80>1!pst\AUDIO\TRACK001.OGG# !vcv10<20!edf1=20<10# !vcv5~1!esd2:"Hello World"#	If value of RAM-variable 2 equals to value of RAM-variable 10, then start show number 5 in normal mode. If value of EEProm-variable 80 greater than value of RAM-variable 1, then play single track "TRACK001.OGG" of folder AUDIO. If value of RAM-variable 10 less than value of RAM-variable 20, then fade DMX channel 1 from current value within 10 seconds to value 20. If value of RAM-variable 5 unequal to value of RAM-variable1, then send "Hello World" on serial port RS232-2.
!vmcX&Y#	Variable modify with constant value. No overflow! Any result > 65535 will be limited to 65535 (0xFFFF) and any result < 0 will be limited to 0.	&: operator. Can be =,+,-,*,/,&,|,^ X: number of variable (1-70 RAM variable, 71-100 EEProm variable Y: constant value (0-65535)	!vmc2=10# !vmc1_10+2# !vmc71-5# !vmc3_20*5# !vmc6/10#	Set RAM-variable 2 to value 10. Increments all RAM-variables from 1 to 10 by 2. Decrements EEProm variable 71 by 5. Multiplies the content of all RAM-variables from 3 to 20 by 5. Devides the content of RAM-variable 6 by 10.
!vmvX&Y#	Variable modify with value of other variable. No overflow! Any result > 65535 will be limited to 65535 (0xFFFF) and any result < 0 will be limited to 0.	&: operator. Can be =,+,-,*,/,&,|,^ X: number of variable (1-70 RAM variable, 71-100 EEProm variable Y: number of variable 2	!vmv2_8=10# !vmv1+2# !vmv71-5# !vmv3*5# !vmv6/10#	Loads all RAM-variables from 2 to 8 with the value of RAM-variable 10. Increments RAM-variable 1 by the value of RAM-variable 2. Decrements EEProm variable 71 by value of RAM-variable 5. Multiplies the content of RAM-variable 3 by value of RAM-variable 5. Devides the content of RAM-variable 6 by value of RAM-variable 10.
Device commands to control Pro I/O devices:				
!cls#	Clear loaded script	none	!cls#	Clears the loaded script in a Pro I/O Remote.
!das..#	And status at external Pro I/O™ device	Open collector output channels, max. 16 outputs; left alignement. 1: additionally clear, 0: channel not affected. Not addressed channels are not affected.	!das1=1001# !das2=10011# !das3=0001# !das4=1111111111111111# !das5=1000000000000011# !das6=1111000001000101#	Pro I/O™ Digital A1, outputs 1-16: Clear output 1 and 4; Pro I/O™ Digital A1, outputs 17-32: Clear output 17,20 and 21; Pro I/O™ Digital A2, outputs 1-16: Clear output 4; Pro I/O™ Digital A2, outputs 17-32: Clear outputs 17-32. Pro I/O™ Digital A3, outputs 1-16: Clear outputs 1, 15 and 16. Pro I/O™ Digital A3, outputs 17-32: Clear output 17,18,19,20,26,30 and 32
!ddfU:VWXYZ#	DMX fade to level command for external devices (e.g. Pro I/O™)	U: Sub-Device-ID V: [1..512]: DMX channel W: [%..=]: %: value between 0% and 100% =: value between 0 and 255 X: DMX value Y: [<..>]: <: value Z in seconds >: value Z in centisecond Z: time in 1/10 sec steps from 0 - 600 seconds	!ddf1:1%20<2.5# or !ddf1:1%20>25# !ddf2:1_4%50<20.8# or !ddf2:1_4%50>208# !ddf4:3=255<200# or !ddf4:3=255>2000#	Pro I/O™ DMX device A1: Fade DMX channel 1 to level 20% in 2.5 seconds. Pro I/O™ DMX device A2: Fade DMX channels 1 to 4 to level 50% in 20.8 seconds. Pro I/O™ DMX device A4: Fade DMX channel 3 to level 255 in 200 seconds.
!ddm..#	Set digital mask for external devices (e.g. Pro I/O™)	Device Sub-ID Address; Digital mask for up to 32 outputs; 1: not masked, 0: masked, x: unchanged; left alignement. The left most 0 or 1 is channel 1. Not addressed channels are not affected. No gap possible.	!ddm1:0x00x00000000000# !ddm2:xxxxxxxxxxxxxxxx0000000000000000# !ddm3:1001#	Pro I/O™ device A1, outputs 1,3,4 and 6-16 are masked, outputs 2 and 5 stay unchanged. No further commands from PC or show are mapped to the outputs. This allows direkt control of outputs via !dss,!dos,!das commands regardless of show content. Outputs 17-32 are not affected. Pro I/O™ device A2, outputs 17-32. Outputs 1-16 are not affected. Pro I/O™ device A3, outputs 2 and 3: Outputs 2 and 3 are masked, 1 and 1 are not masked. The remaining outputs are not affected. No further commands are mapped to output 2 and 3. This allows direkt control of outputs 2and 3 via !dss,!dos,!das commands regardless of show content.

ENTERTAINMENT POWERED BY **WEIGL CONTROL**

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info

!ddnW:XYZ#	Set DMX min value command for external devices (e.g. Pro I/O™)	W: Sub-Device-ID
		X: [1..512]: DMX channel
		Y: [%..=]:
		  %: value between 0% and 100%
		  =: value between 0 and 255
		Z: DMX value: (0-255)
			!ddn1:1=20#
			!ddn2:1_512=128#
				Pro I/O™ DMX device A1: Set DMX min value of DMX channel 1 to 20 = 7.8%
				Pro I/O™ DMX device A2: Set DMX min value of DMX channels 1 to 512 to 128 = 50%.
				If the new min value is greater than the current max value, the min value will be limited to the max value!

!ddsW:XYZ#	DMX set to level command for external devices (e.g. Pro I/O™)	W: Sub-Device-ID
		X: [1..512]: DMX channel
		Y: [%..=]:
		  %: value between 0% and 100%
		  =: value between 0 and 255
		Z: DMX value: (0-255)
			!dds1:1%20#
			!dds2:1_4%50#
			!dds4:3=255#
			!dds5:7%30#
			!dds6:5_8=0#
				Pro I/O™ DMX A1: Set DMX channel 1 to level 20%;
				Pro I/O™ DMX A2: Set DMX channels 1 to 4 to level 50%;
				Pro I/O™ DMX A4: Set DMX channel 3 to value 255;
				Pro I/O™ DMX A5: Set DMX channel 7 to level 30%;
				Pro I/O™ DMX A6: Set DMX channels 5 to 8 to value 0;

!ddxW:XYZ#	Set DMX max value command for external devices (e.g. Pro I/O™)	W: Sub-Device-ID
		X: [1..512]: DMX channel
		Y: [%..=]:
		  %: value between 0% and 100%
		  =: value between 0 and 255
		Z: DMX value: (0-255)
			!ddx1:1=200#
			!ddx2:1_512=153#
				Pro I/O™ DMX device A1: Set DMX max value of DMX channel 1 to 200 = 78%.
				Pro I/O™ DMX device A2: Set DMX max value of DMX channels 1 to 512 to 153 = 60%.
				If the new max value is less than the current min value, the max value will be limited to the min value!

!deiY:Z#	Device Ease-In	Y: Sub-Device-ID
		Z: [0..1]:
		  0: no ease-in
		  1: activate ease-in
			!dei1:11000111#	Activates ease-in at Pro I/O Analog module A1 for analog channels 1,2,6,7,8.

!dflU:VWXYZ#	Fade to level command for external devices (e.g. Pro I/O™)	U: Sub-Device-ID
		V: [1..8]: Output channel
		W: [%..=]:
		  %: value between 0% and 100%
		  =: value between 0 and 1023
		X: Level value
		Y: [<..>]:
		  <: value Z in seconds
		  >: value Z in centisecond
		Z: time in 1/10 sec steps from 0 - 600 seconds
			!dfl1:1%20<2.5# or !dfl1:1%20>25#
			!dfl2:1_4%50<20.8# or !dfl2:1_4%50>208#
			!dfl4:3=720<200# or !dfl4:3=720>2000#
				Pro I/O™ Analog A1: Fade analog output 1 to level 20% in 2.5 seconds.
				Pro I/O™ Analog A2: Fade analog outputs 1 to 4 to level 50% in 20.8 seconds.
				Pro I/O™ Analog A4: Fade analog output 3 to level 720 in 200 seconds.

!dmaY:Z#	Map Pro I/O Analog or Servo to DMX	Y: Sub-Device-ID Z: [0..512]: DMX start address	!dma2:60#	Pro I/O™ device A2 is mapped to DMX starting at channel 60. DMX signal is read by ProCommander®!!! ProCommander® creates cues for analog channels based on incoming DMX signal.
!dmdY:Z#	Map Pro I/O Digital or Relay to DMX	Y: Sub-Device-ID Z: [0..512]: DMX start address	!dmd1:20#	Pro I/O™ device A1 is mapped to DMX starting at channel 20. DMX signal is read by ProCommander®!!! ProCommander® creates cues for digital channels based on incoming DMX signal. If DMX channel is < 128, digital channel is 0, if DMX channel is >= 128, digital channel is 1.

ENTERTAINMENT POWERED BY WEIGL CONTROL

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info
!dmo..#	Set digital mask for external devices (e.g Pro I/O™) and switch off	Device Sub-ID Address; Digital mask for up to 32 outputs; 1: not masked, 0: masked, x:unchanged; left alignement. All masked channels are switched off! The left most 0 or 1 is channel 1. Not addressed channels are not affected. No gap possible.	!dmo1:0x00x00000000000# !dmo2:xxxxxxxxxxxxxxxx0000000000000000# !dmo3:1001#	Pro I/O™ device A1, outputs 1,3,4 and 6-16 are masked, outputs 2 and 5 stay unchanged. No further commands from PC or show are mapped to the outputs. This allows direkt control of outputs via !dss,!dos,!das commands regardless of show content. Outputs 17-32 are not affected. Pro I/O™ device A2, outputs 17-32. Outputs 1-16 are not affected. Pro I/O™ device A3, outputs 2 and 3 Outputs 2 and 3 are masked, 1 and 4 are not masked. The remaining outputs are not affected. No further commands are mapped to output 2 and 3. This allows direkt control of outputs 2 and 3 via !dss,!dos,!das commands regardless of show content.
!dos..#	Or status at external Pro I/O™ device	Open collector output channels, max. 16 outputs; left alignement. 1: additionally set, 0: channel not affected. Not addressed channels are not affected.	!dos1:1001# !dos2:10011# !dos3:0001# !dos4:1111111111111111# !dos5:1000000000000011# !dos6:1111000001000101#	Pro I/O™ Digital A1, outputs 1-16: set output 1 and 4; Pro I/O™ Digital A1, outputs 17-32: Set output 17,20 and 21; Pro I/O™ Digital A2, outputs 1-16: Set output 4; Pro I/O™ Digital A2, outputs 17-32: Set outputs 17-32. Pro I/O™ Digital A3, outputs 1-16: Set outputs 1, 15 and 16. Pro I/O™ Digital A3, outputs 17-32: Set output 17,18,19,20,26,30 and 32;
!dslW:XYZ#	Set to level command for external devices (e.g. Pro I/O™)	W: Sub-Device-ID X: [1..8]: Output channel Y: [%..=]: %: value between 0% and 100% =: value between 0 and 1023 Z: Level value: 10bit resolution (0-1023)	!dsl1:1%20# !dsl2:1_4%50# !dsl4:3=720# !dsl5:7%30# !dsl6:5_8=0#	Pro I/O™ Analog A1: Set analog output 1 to level 20%; ~-> 2V at a range from 0V--10V. Pro I/O™ Analog A2: Set analog outputs 1 to 4 to level 50%; ~-> 5V at a range from 0V--10V. Pro I/O™ Analog A4: Set analog output 3 to level 720; ~-> 7V at a range from 0V--10V. Pro I/O™ Analog A5: Set analog output 7 to level 30%; Pro I/O™ Analog A6: Set analog outputs 5 to 8 to level 0;
!dss..#	Set status at external Pro I/O™ device	Open collector output channels, max. 16 outputs; 1: set, 0: clear; left alignement. The most left 0 or 1 is channel 1. Not addressed channels are not affected. No gap possible.	!dss1:1001# !dss2:10011# !dss3:0001# !dss4:1111111111111111# !dss5:0000000000000000# !dss6:1111000001000101#	Pro I/O™ Digital A1, outputs 1-16: set output 1 and 4; clear output 2,3 and 5-16; Pro I/O™ Digital A1, outputs 17-32: Set output 17,20 and 21; clear output 18,19 and 22-32. Pro I/O™ Digital A2, outputs 1-16: Set output 4; clear output 1,2,3 and 5-16. Pro I/O™ Digital A2, outputs 17-32: Set outputs 17-32. Pro I/O™ Digital A3, outputs 1-16: Clear outputs 1-16. Pro I/O™ Digital A3, outputs 17-32: Set output 17,18,19,20,26,30 and 32; clear output 21-25,27-29 and 31.
!gls#	Get loaded script	none	!gls#	Read back of the loaded script in a Pro I/O Remote.
Device commands to control PrismTag Target:				
!sidX#	Set Wand ID	X: Wand ID	!sid1#	Set Wand ID to Wand number 1.
!tawX:Y:Z#	Associate PrismTag Wand. If at least one wand is associated, only associated wands are accepted. Maximum 50 PrismTag Wands can be associated per PrismTag Target.	X: 0..48: PrismTag Target ID, 0 = all Targets Y: 1..120: PrismTag Wand ID Z: 0..1: 0 = unassociate PrismTag Wand, 1 = associate PrismTag Wand	!tawX:0:0# !taw1:20:1#	All associations are cleared. Associate to PrismTag Target with the ID 1, PrismTag Wand with the ID 20.

ENTERTAINMENT POWERED BY **WEIGL CONTROL**

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info
!tbwX:Y:Z#	Block PrismTag Wand for individual PrismTag Targets. Individual wands can be blocked. If the same wand is also in the associated list, block has priority and the PrismTag Wand will be ignored.	X: 0..48: PrismTag Target ID, 0 = all Targets Y: 1..120: PrismTag Wand ID Y: 126: unblock all wands Y: 127: block all wands Z: 0..1: 0 = remove from blocklist, 1 = add to blocklist	!tbw0:127:0# !tbw5:127:0# !tbw0:126:0# !tbw7:126:0# !tbw30:60:1# !tbw42:89:0# !tbw0:0:0#	Block all PrismTag wands for all PrimTag Targets. The current block list is not changed. Block all Wands for PrismTag Target with the Target ID 5 (block list is not changed). Unblock all PrismTag Wands for all PrismTag Targets. The current block list is not changed. Unblock all PrismTag Wands for PrismTag Target with the Target ID 7 (block list is not changed). Add PrismTag Wand with the ID 60 to the block list of PrismTag Target with the Target ID 30. Remove PrismTag Wand with the ID 89 of the block list of PrismTag Target with the Target ID 42. The block list can be cleared for all PrismTag Targets.
!tcbX:Y<Z#	Set come-back time and fade-in time of a PrismTag Target	X: 0..48: PrismTag Target ID Y: 0..120: Come back time of Target Z: 0..10: Fade in time of Target	!tcb3:5<10# !tcb0:1<1#	PrismTag Target with the ID 3, if the Target is hit the lights are powered off for 5 seconds and after that they fade in within 10 seconds. All PrismTag Targets are powered off for 1 second and fade in within 1 second.
!tdaX:YYYY#	Set digital outputs 1 to 4 of PrismTag Target OFF	X: 0..48: PrismTag Target ID, 0 = all Targets YYYY: Left aligned output channels 1 to 4. 0: output deactivated.	!tda31:1111# !tda2:1100#	All digital outputs are deactivated of target number 31. Outputs 1 and 2 of target 2 are deactivated.
!tdoX:YYYY#	Set digital outputs 1 to 4 of PrismTag Target ON	X: 0..48: PrismTag Target ID, 0 = all Targets YYYY: Left aligned output channels 1 to 4. 1: output activated.	!tdo24:1111# !tdo3:1001#	All digital outputs are activated of target number 24. Outputs 1 and 4 of target 3 are activated.
!tdsX:YYYY#	Set digital outputs 1 to 4 of PrismTag Target	X: 0..48: PrismTag Target ID, 0 = all Targets YYYY: Left aligned output channels 1 to 4. 1: output activated. 0: output deactivated.	!tds1:1001# !tds24:1111# !tds31:0000#	The digital outputs 1 and 4 are activated and 2 and 3 are deactivated of target number one. All digital outputs are activated of target number 24. All digital outputs are deactivated of target number 31.
!tgcX#	Get PrismTag Target color	X: 1..48: PrismTag Target ID Answer in ASCII: RGB #X:R,G,B,<CR> X: 1..48: PrismTag Target ID R: 0..127: value of red G: 0..127: value of green B: 0..127: value of blue	!tgc20#	Get the color of PrismTag Target number 20.
!tgl0#	Get PrismTag Target list	Answer in ASCII: Target #X:Y:Z<CR> X: 1..48: ID in the internal target list Y: 1..48: PrismTag Target ID Z: 0..65535: Serial number of PrismTag Target	!tgl0#	Get whole list of Target ID's of all connected PrismTag Target (max. 48 pc), without any reboot of the ProCommander®.
!tgvX#	Get PrismTag Target Firmware Version	X: 1..48: PrismTag Target ID Answer in ASCII: Version #X:1.07<CR>	!tgv1#	Get firmware version of PrismTag Target number 1.
!trgX:R,G,B#	Set color of PrismTag Target	X: 1..48: PrismTag Target ID R: 0..127: value of red G: 0..127: value of green B: 0..127: value of blue	!trg0:0,127,0# !trg1:0,0,127# !trg3:127,0,0# !trg0:127,127,127#	All PrismTag Targets change their color to green The PrismTag Target with the IP-address #1 will change the color to blue The PrismTag Target with the IP-address #3 will change the color to red All PrismTag Targets change their color to white.
!trt#	Search for all connected PrismTag Targets incl. Software Version	Answer in ASCII: Target #X:Y:Z<CR> X: 1..48: ID in the internal target list Y: 1..48: PrismTag Target ID Z: 0..65535: Serial number of PrismTag Target u: Target Unique ID s: Serial number of PrismTag Target v: Firmware Version of PrismTag Target p: 0..1: connected to ProCommander® c: current value of PrismTag Target	!trt# Answer: Target #1:1u100273s6273v119p1c1 Target #17:17u100289s6289v119p0c1	Get whole list of all connected PrismTag Target incl. Software Version Answer: PrismTag Target #1 with the Target ID 1, Target Unique ID 100273, Serial Number 6273, Software Version 119 is connected with the Target IN to the ProCommander® and has the value 1. PrismTag Target #17 with the Target ID 17, Target Unique ID 100289, Serial Number 6289, Software Version 119 is connected to another PrismTag Target and has the value 1.

ENTERTAINMENT POWERED BY WEIGL CONTROL

WEIGL ASCII-Commands for ProCommander® X Series, ProCommander® Series, WEMC-1, PrismTag™ Series and Pro I/O™ Series

Command	Name	Parameter	Example-Explanation	Info
!trt1#	List the complete PrismTag Targets list	Answer in ASCII: Target #X:Y:Zv1.14<CR> X: 1..48: ID in the internal target list Y: 1..48: PrismTag Target ID Z: 0..65535: Serial number of PrismTag Target v: Firmware Version of PrismTag Target	!trt1# Answer: Target #1:0u0s0v0p0c0 Target #2:0u0s0v0p0c0 Target #3:3u100644s6644v125p1c1# Target #4:0u0s0v0p0c0 […]	Lists all possible PrismTag Targets (ID 1-48) and PrismTag Sector Targets (ID 49-56). Answer: PrismTag Target #1 and Target #2 had not be detected. PrismTag Target with the Target ID 3, Target Unique ID 100644, Serial Number 6644, Software Version 125 is connected with the Target IN to the ProCommander® and has the value 1.
!tsvX:Y:Z#	Set value of PrismTag Target This is the increment score value of the variable, if the target is hit.	X: 0..48: PrismTag Target ID, 0 = all targets Y: 1..16000: Value of PrismTag Target Z: 0..1: 0 = value is temporarily till power cycle, 1 = value is stored permanently in EEProm	!tsv5:600:1# !tsv10:800:0#	Set value of PrismTag Target with ID 5 to 600 permanently. Set value of PrismTag Target with ID 10 to 800 temporarily till the next power cycle.
!tuc3#	Get Target list		!tuc3#	Get list of all Targets via Unique ID indepent of Target ID's.
!tuc4:TUID:red:green:blue#	Set color on Target with the TUID	TUID: Target Unique ID Red: 0..127 Green: 0..127 Blue: 0..127	!tuc4:100281:60:40:127#	Set color of PrismTag Target with TUID 100281.
Enable ProCommander® 3, ProCommander® LX 2 & ProCommander® PHX 2 (Firmware Version > 4.34) on VenueMagic 2.6 and 3.0:				
!svmX#	Set Venue Magic enabled	X: 0..1: 0 = Venue Magic OFF, 1 = Venue Magic ON	!svm1#	Enable ProCommander® 3, ProCommander® LX 2 & ProCommander® PHX 2 (Firmware Version > 4.34) on VenueMagic 2.6 and 3.0
Enable WEMLink EtherCAT mode on ProCommander® X Series (Firmware Version > 2.80):				
!wmlX:Y#	Set WEMLink EtherCAT mode enabled	X: IP address of Sub-Device-IDs A1-A32 Y: destination port (port on A1-A32) Recommendation: Put the !wmlX:Y# command in the Control.ini file of the ProCommander®	!wml10.0.0.201:5559#	Enable WEMLink EtherCAT mode on a ProCommander® AX for IP address 10.0.0.201 with port 5559.

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