

TIPI METHODS FOR LINEA RESEARCH M & C RANGE AMPLIFIERS

V1.20	Dec 2019							
Relates to firmware V1.514 onwards for 44M, 44C, 48M, 88C Amplifier products								
SET/GET								
Parameter	MethodName	Channels	Minimum Value	Maximum Value	Actions	Example	Example 'GET' Response	Notes
Input Mute	InA/Mute	InA...InH	false	true	Set/Get	SET InD/Mute yes		
Input Gain	InA/Gain	InA...InH	-40dB	20dB	Set/Get	SET InB/Gain -3.2dB		
Input Polarity	InA/Pol	InA...InH	false	true (reverse pol)	Set/Get	SET InC/Pol yes	NOTIFY InC/Pol yes	'yes' means reverse polarity
Output Mute	Out1/Mute	Out1...Out8	false	true	Set/Get	GET Out2/Mute	NOTIFY Out2/Mute yes	
Snapshot	Snapshot	-	1	20	Set	SET Snapshot 5		Maximum value depends on the model type
Sleep	Sleep	-	false	true	Set	SET Sleep yes		
Standby	Standby	-	false	true	Set	SET Standby no		
Nop	Nop	-	-	-	-	NOP		Useful for TCP/IP 'keep alive' for some controllers
GET								
Parameter	MethodName	Channels	Minimum Value	Maximum Value	Actions	Example	Example 'GET' Response	Notes
Worst Alarm	Alarms/Worst	-	-min	+max	Get	GET Alarms/Worst	NOTIFY Alarms/Worst -6	-ve number for Attention, +ve for Fault, 0 for none
Input Meter	InA/Meter	InA...InH	tbd	tbd	Get	GET InD/Meter	NOTIFY InD/Meter 1.2dB	
Output Meter	Out1/Meter	Out1...Out8	tbd	tbd	Get	GET Out2/Meter	NOTIFY Out2/Meter 2.3dB	
Driver Impedance	Out1/Imp	Out1...Out8	0	9999	Get	GET Out4/Imp	NOTIFY Out4/Imp 4.2R	"0.1R" When the value cannot be determined
Type	Type	-	0	9999	Get	GET Type	NOTIFY Type 1234	The firmware Type number, not the product model name
Version	Version	-	0	9999	Get	GET Version	NOTIFY Version 1234	1000 x the firmware version - this example indicating V1.234
* Note that each string must begin with the start delimiter "\$" and be terminated with a "\r" "Carriage Return" (0x0D character, sometimes denoted as <CR>)								
An example of the full string would thus be: \$SET Snapshot 5\r								
TIPI Error Codes implemented								
1,2,3,4	BadCommandIncomplete							
5	BadCommandUnexpectedLength							
7	BadCommandParamValue							
8,12	UnknownMethod							
9	UnknownMethodType							
10	BadCommandExpectedYesNo							
11	BadCommandFloatFormat							
others	UnknownError							
Alarm Codes								
-6	PSU Current Attention							
-7	Driver Impedance1 Attention							
-8	Driver Impedance2 Attention							
-9	Driver Impedance3 Attention							
-10	Driver Impedance4 Attention							
-11	Driver Impedance5 Attention							
-12	Driver Impedance6 Attention							
-13	Driver Impedance7 Attention							
-14	Driver Impedance8 Attention							
-15	Slow Fan Attention							
-16	PSU Power Attention							
-17	Temperature Attention							
-18	Starting Attention							
19	Fan Fault							
20	PSU Power Fault							
21	VHF Fault							
22	Driver Current Fault							
23	Mains Voltage Fault							
24	Temperature Fault							
25	HT Fault							
26	PSU Shutdown Fault							
27	DC Fault							
28	Starting Fault							