

FOR DX UPS Only :

MGE UTalk Protocol Implement list:

Item	Collection	Command	Answer	Available
7.1	A command	A	This command enables the echo character mode. No answer for this command except the echo. Example : A<End-C> answer is : A<End-C>, then Au<End-C> answer is : Au<End-C>1<End-A>	implement
7.2		Ai	This command answers the system identifier. There are 2 data : <DATA1>SP<DATA2>. Example : <DATA1> = 4 = protocol level <DATA2> = 2 = multiplier table for measurements Ai<End-C> answer is : 4 2<End-A>	implement
7.3		Au	This command answers the system unit number which is 1. Example : Au<End-C> answer is : 1<End-A>	implement
7.4		Ax0	This command disables the communication link. In this mode, 4 commands are still active : A, Au, Ax1, Z. (Default mode). Example : Ax0<End-C> there is no answer, then A<End-C> answer is : A<End-C> Au<End-C> answer is : Au<End-C>1<End-A>, then Z<End-C> there is no answer Au<End-C> answer is : 1<End-A> BI<End-C> there is no answer	implement
7.5		Ax1	This command enables the communication link. There is no answer. In this case, all the commands are active. Example : Ax 1<End-C> there is no answer, then BI<End-C> answer is : 100<End-A> for a 100% charged battery	implement
7.6	B command	BI ?	This command allows to see the battery low level alarm set with BI data command. Minimum value : 0 Maximum value : 100 Default value : depend on BI data Default value Unit : "percent" Example : BI ?<End-C> answer is : 20<End-A>	

7.7		BI	<p>This command takes account of battery charge state. It gives an answer every time (autonomy or utility ON). Minimum value : 0 Maximum value : 100 Unit : "percent"</p> <p>Example : actual battery level is : 12 % BI<End-C> If you haven't 1 percent resolution, you take the closest lower value. If this value is 10 percent, then : answer is : 10<End-A></p>	
7.8		BI data	<p>This command allows to set the battery low level alarm (relay contact on DB9 and Ss.1.3). Minimum value : 0 Maximum value : 100 Default value : 20 Unit : "percent"</p> <p>Example : BI ?<End-C> answer is : 20<End-A> BI 40<End-C> answer is : OK<End-A> BI ?<End-C> answer is : 40<End-A></p>	
7.9		Bn ?	<p>This command answers the nominal maximum battery remaining time with a nominal load, according to battery configuration. Minimum value : 0 Maximum value : 65535 Unit : second.</p> <p>Example : Bn ?<End-C> answer for 5 min is : 300<End-A></p>	implement
7.10		Bn data	<p>This command takes account of actual load and battery state. It gives an answer every time (autonomy or utility ON). Minimum value : 0 Maximum value : 65535 Default value : 0 Maximum resolution = 1 second Unit : second</p> <p>Example : actual battery remaining time is : 120 S Bn<End-C> If you haven't 1 second resolution, you take the closest lower value. If this value is 110 S, then : answer is : 110<End-A></p>	implement
7.11		Bp ?	<p>This command answers the battery test period time set with Bp data. Minimum value : 0 Maximum value : 65535 (more than 45 days) Default value : 10080 (1 week) Unit : minute.</p> <p>Example : Bp ?<End-C> answer for a week is : 10080<End-A></p>	implement

7.12		Bp data	<p>This command allows to set the battery test period time. 0 value means cancel periodic battery test. Values from 1 to 1439 are not allowed. In this case, the value is ignored and the answer is NOK<End-A>.</p> <p>The possible values are :</p> <ul style="list-style-type: none"> - 0 : no test, - 1440 : 1 day, - 10080 : 1 week, - 43200 : 1 month. <p>Answer must be NOK for other values from 1 to 65535 and ? over 65535.</p> <p>Default value : 10080 (1 week) Unit : minute.</p> <p>Example 1 : Bp 10080<End-C> answer is OK<End-A> Bp ?<End-C> answer is : 10080<End-A></p> <p>Example 2 : Bp 60<End-C> answer is NOK<End-A> Bp ?<End-C> answer is : 10080<End-A></p>	implement
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7.15		Bv	<p>This command answers the measured battery voltage.</p> <p>Minimum value : 0 Maximum value : 65535 Maximum resolution = 1 Centivolt. Unit : centivolt</p> <p>Example :actual battery voltage is : 41.25 V Bv<End-C> answer is : 4125<End-A></p>	implement
7.16		Bw ?	<p>This command answers the battery width for standard product.</p> <p>1 = standard, 3 = 1 external battery cabinet, 5 = 2 external battery cabinets, 7 = 3 external battery cabinets. 9 = 4 external battery cabinets. If the product is CLA, the answer to this command is NOK.</p> <p>Minimum value : 1 Maximum value : 7 Default value : depends on Bw data Default value</p> <p>Example : battery width = 3 Bw ?<End-C> answer is : 3<End-A></p>	implement Answer is 1
7.17		Bx1	<p>This command initiates a battery test. The battery status Ss.1.{7, 4, 0} has to be set if the result is bad, the same for Sq.1.0, Bs.1.{5, 4}</p> <p>Example : Bx 1<End-C> answer is : OK<End-A></p>	implement
7.18		Bx3	<p>This command sets the forbid slow discharge control delay. Then you have to set Bs.2.4 (see Bs command).</p> <p>Example : Bx 3<End-C> answer is : OK<End-A></p>	
7.19		Bx4	<p>This command sets the allow slow discharge control delay. Then you have to reset (= 0) Bs.2.4 (see Bs command).</p> <p>Example : Bx 4<End-C> answer is : OK<End-A></p>	
7.20	E command	En ?	<p>This command answers the nominal battery recharge time for an empty battery.</p> <p>Minimum value : 0 Maximum value : 65535 Default value : 18000s Unit : second</p> <p>Example : En ?<End-C> answer for 5 h is : 18000<End-A></p>	

7.21		En	<p>This command answers the battery recharge time measured at any time (if autonomy or if utility is ON)</p> <p>Minimum value : 0 Maximum value : 65535 Default value : maximum value Unit : second</p> <p>Example : actual battery recharge time is 550 s : En<End-C> answer is : 550<End-A></p>	
7.22	I command	If ?	<p>This command answers the nominal inverter frequency.</p> <p>Possible values : 50 , 60 Default value : depends on If data Default value Unit : Hertz</p> <p>Example : nominal load frequency is 50 If ?<End-C> answer is : 50<End-A></p>	implement
7.23		If data	<p>This command sets the nominal inverter frequency. It is possible to give values unreachable, (i.e. : 70). In this case, the value is ignored and the answer is NOK<End-A>. It is only taken into account when inverter is off. If inverter is on answer is ? and frequency is not updated.</p> <p>Possible values : 50, 60 Unit : Hz</p> <p> Example : If 50<End-C> Answer is OK<End-A> If ?<End-C></p> <p>answer is : 50<End-A></p>	implement
7.24		Is	<p>Inverter Status: <STATUS1><SP><STATUS2></p> <p>The Is.1.0 is set when inverter is off. The Is.1.4 is set when an inverter overcurrent occurs. The Is.1.6 is set when an inverter overtemperature occurs. The Is.1.7 is set when an inverter major / temperature fault occurs and when Is.1.6 is set The Is.2.0 is set when inverter operates in converter mode, that is when Mx 1 is used.</p> <p> Example : Is<End-C> answer is : <00X0XXX0><SP><X XXXXXXXX><End-A></p>	implement
7.25		Iv ?	<p>This command answers the nominal inverter voltage set with Iv data.</p>	implement

7.26		lv data	<p>This command allows to set the nominal inverter voltage. It is possible to give values unreachable, (i.e. : 22600). In this case, the value is ignored and the answer is NOK<End-A>.</p> <p>Possible values : Europe : 20000 – 20800 – 22000 – 23000 – 24000 - 25000 US : 10000 – 12000 - 12700 Default value : 23000 EUR, 12000 US Unit :centivolt</p> <p>Example 1 : to set the nominal load voltage to 220 V : lv 22000<End-C> answer is : OK<End-A> lv ?<End-C> answer is : 22000<End-A></p> <p>Example 2 : to try to set the nominal load voltage to 222V : lv 22200<End-C> answer is : NOK<End-A> lv ?<End-C> answer is : 22000<End-A> (previous value)</p>	implement									
7.27		Lc ?	<p>This command answers the nominal load current.</p> <p>Unit : centiAmps</p> <table border="1" data-bbox="715 1189 1283 1301"> <thead> <tr> <th></th> <th>U2 2200</th> <th>U2 3200</th> </tr> </thead> <tbody> <tr> <th>EUR</th> <td>957</td> <td>1391</td> </tr> <tr> <th>US</th> <td>1833</td> <td>2667</td> </tr> </tbody> </table> <p>Example : Lc ?<End-C> answer for 9.57 A is : 957<End-A></p>		U2 2200	U2 3200	EUR	957	1391	US	1833	2667	implement
	U2 2200	U2 3200											
EUR	957	1391											
US	1833	2667											
7.28	L command	Lc	<p>This command answers the measured load current.</p> <p>Minimum value : 0 Maximum value : 65535 Unit : centiamps</p> <p>Example : actual load current is 2 A : Lc<End-C> answer is : 200<End-A></p>	implement									
7.29		Lf	<p>This command answers the measured load frequency.</p> <p>Minimum value : 0 Maximum value : 65535 Unit : hertz</p> <p>Example : Actual load frequency is 51 Lf <End-C> answer is : 51<End-A></p>	implement									

7.30		Lj data	<p>This command allows or disables the possibility to have 3 consecutive shortcuts.</p> <p>value 0 : disable value 3 : enable default value : 0 (disable)</p>	Can't
7.31		Lj ?	<p>This command reads the shortcut permission setting.</p>	Can't
7.32		LI	<p>This command takes account of actual load. It gives an answer at any time (if autonomy or if utility ON).</p> <p>Minimum value : 0 Maximum value : 110 Unit : "percent" Maximum resolution = 1 percent.</p> <p>Example : actual load level is : 87 %. LI<End-C></p> <p>If you haven't 1 percent resolution, you take the closest higher value. If this value is 90 percent, then : answer is : 90<End-A></p>	implement
7.33		Lo ?	<p>This command allows to see the overload signalization level set with Lo data command.</p> <p>Minimum value : 10 Maximum value : 110 Default value : depend on Lo data Default value Maximum resolution = 1 Unit : %</p> <p>Example : Lo ?<End-C> answer is : 20<End-A></p>	implement
7.34		Lo data	<p>This command allows to set the overload signalization level.</p> <p>LI is compared to Lo. If LI > Lo and 10 < LI < 110, then overload signalisation on display panel. Ss.1.1 and Sq.1.5 are set to 1. If LI < Lo and LI >= 110, then overload signalization on display panel. Ss.1.1 and Sq.1.5 are set to 1. Else Ss.1.1 and Sq.1.5 are resetted.</p> <p>Caution : this level is only use for overload signalization. No actions are done by the UPS according to this threshold.</p> <p>Minimum value : 10 Maximum value : 110 Default value : 110 Maximum resolution = 1 Unit : %</p> <p>Example : Lo ?<End-C> answer is : 100<End-A> Lo 55<End-C> answer is : OK<End-A> Lo ?<End-C> answer is : 55<End-A></p>	implement

7.35		Ls	<p>Load Status : <STATUS1><SP> <STATUS2> Default value is : 0XX0XX00 11X11000</p> <p>The Ls.1.0 is set when a load voltage out of tolerance occurs. The Ls.1.1 is set when a load freq out of tolerance occurs. The Ls.1.4 is set when a load overcurrent occurs. The Ls.1.7 is set when inverter is loaded with a short circuit. The Ls.2.0 is linked with Sn. (The signification and implementation way for the Sn data command is given in annexe in LION grafcet). During the TS_n temporization, Ls.2.0 is set. When TS_n temporization is reached, reset (=0) Ls.2.0. The Ls.2.1 is linked with Sm. It's the same as Sn but with Sm data command and TSm temporization. The Ls.2.2 is linked with SI and Sg. (The signification and implementation way for the SI data and Sg data commands is given in annex in grafSV grafcet). If The TS_g temporization is reached or the battery level is greater or equal with the SI data value (VALSIOK = 1) then reset Ls.2.2 (TS_g + VALSIOK). The Ls.2.3 is linked with Sx5 and Sx4. If a Sx5 command, set Ls.2.3. If a Sx4 command, reset (=0) Ls.2.3. The Ls.2.4 is linked with Sx7 and Sx6. If a Sx7 command, set Ls.2.4. If a Sx6 command, reset (=0) Ls.2.4. The Ls.2.6 is linked with Sx13 and Sx14. If a Sx13 command, set Ls.2.6. If a Sx14 command, reset (=0) Ls.2.6. The Ls.2.7 is set when the load is powered either with mains, or with inverter.</p> <p>Example : Ls<End-C> with Default mode (the Default mode is Sx5, Sx7) answer is : <0XX0XX00><SP><11X11000><End-A></p>	implement
7.36		Lv	<p>This command answers the measured load voltage.</p> <p>Minimum value : 0 Maximum value : 65535 Maximum resolution = 1 Centivolt Unit : Centivolt</p> <p>Example : actual load voltage is : 223.5 V Lv<End-C> answer is : 22350<End-A></p>	implement
7.37	M command	Mi	This command deselects memory access. Answer is always OK.	Can't
7.38		Mi data	This command enables password mode for calibration command.	
7.39		Mr	This command allows to read data from memory, at the current address.	

7.40		Mw data	This command allows to write data to memory. Last selected memory and last selected address in memory are used.	
7.41		Mx 0	This command sets start on bypass mode.	
7.42		Mx 1	This command is used to enable or disable the memorized converter mode. Mx 1 and Mw 2 set the memorized converter mode Mx 1 and Mw 0 disable the memorized converter mode.	
7.43		Mx 2	This command sets the byte mode.	
7.44		Mx 4	This command clears the calibration mode.	
7.45		Mx 5	This command sets the calibration mode.	
7.46		Mx	This command allows to know if memory access is available.	
7.47		My data	This command sets memory address.	
7.48	P command	Ps	Bypass Status : <STATUS1><SP><STATUS2><SP><STATUS3> Default value is : XXX0X0XX XXXXXXXX X0X0XXXX The Ps.1.2 is set when UPS is on bypass. The Ps.1.4 is set when a bypass overload occurs. The Ps.3.4 is set when Px4 command is received. It is reset when Px5 occurs. The Ps.3.6 is set when Px 6 command is received. Example : Px<End-C> answer is : <XXX0X0XX><SP><XXXXXXX><SP><X0X0XXXX><End-A>	implement
7.49		Px4	This command disables transfer on bypass on overload. Example : Px 4<End-C> answer is : OK<End-A>	implement
7.50		Px5	This command enables transfer on bypass on overload. Example : Px 5<End-C> answer is : OK<End-A>	implement
7.51		Px6	Transfer on bypass if mains are out of tolerance valid Example : Px 6<End-C> answer is : OK<End-A>	implement
7.52		Px7	Transfer on bypass if mains are out of tolerance forbidden Example : Px 7<End-C> answer is : OK<End-A>	implement

7.53	S command	Sg ?	<p>This command allows to see the maximum recharge time to restart set by Sg data command.</p> <p>Minimum value : 0 Maximum value : 65535 Default value : depend on Sg data Default value</p> <p>Example : Sg 3120<End-C> answer is : OK<End-A> Sg ?<End-C> answer is : 3120<End-A></p>	implement
7.54		Sg data	<p>This command allows to set the maximum recharge time to restart. The real signification and implementation way for this command is given in annex in grafLION grafcet.</p> <p>If the maximum recharge time to restart is not reached, and minimum recharge level to restart is not reached you have to set Ls.2.2 (see Ls command).</p> <p>If the maximum recharge time to restart is reached, or the minimum recharge level to restart is reached you have to reset (= 0) Ls.2.2 (see Ls command).</p> <p>Minimum value : 0 Maximum value : 65535 Default value : 0 Unit : second Resolution : 1</p> <p>Example : Sg 3120<End-C> command sets the maximum recharge time to restart to 52 minutes. answer is : OK<End-A></p>	implement
7.55		Si	<p>This command answers the system identifier. There are 3 data :</p> <p><DATA1>SP<DATA2>SP<DATA3> : <DATA1> = 3000 (UPS family see paragraph) <DATA2> = here are the temporary values returned according to the UPS type. <DATA3> = Version (software version)</p> <p>Example : Si<End-C> answer is : 3000 57 0<End-A> : means it is a EXtreme 1000C Europe model UPS (Tower version) with software version 0.</p>	implement
7.56		Si1	<p>This command answers the system identifier with characters string format. There are 3 strings : <DATA1>SP<DATA2>SP<DATA3> :</p> <p><DATA1> = UPS family : EXtreme <DATA2> = here are the values returned according to the UPS type. <DATA3> = Software version.</p> <p>Example : Si1<End-C> answer is : "EXtreme 2200 7<End-A>"</p>	implement

7.57		SI ?	<p>This command allows to see the minimum recharge level to restart set by SI data command.</p> <p>Minimum value : 0 Maximum value : 100 Default value : depend on SI data Default value</p> <p>Unit : "percent"</p> <p>Example : SI 50<End-C> command, then SI ?<End-C> answer is : 50<End-A></p>	Can't
7.58		SI data	<p>This command allows to set the minimum recharge level to restart. The actual signification and implementation way for this command is given in annex in grafLION grafcet.</p> <p>If the minimum recharge level to restart is not reached (e.g. : SI 33, resolution 10%, possible values for BI : 0, 10, 20, 30, 40, 50, ...; not reached means BI < 40%), and the maximum recharge time to restart is not reached you have to set Ls.2.2 (see Ls command).</p> <p>If the minimum recharge level to restart is reached, or the maximum recharge time to restart is reached you have to reset (= 0) Ls.2.2 (see Ls command).</p> <p>Minimum value : 0 Maximum value : 100 Default value : 0 "Unit" : percent</p> <p>Example : SI 33<End-C> command sets the maximum recharge time to restart to 33 percent. answer is : OK<End-A> SI ?<End-C> answer is : 40<End-A> if 10% resolution (see example)</p>	Can't
7.59		Sm ?	<p>This command allows to see the delay before power ON set by Sm data.</p> <p>Minimum value : 0 Maximum value : 65535 Default value : depend on Sm data Default value</p> <p>Example : Sm 121<End-C> command sets the delay before power ON to 2 h 1 min, then Sm ?<End-C> answer is : 121<End-A></p>	implement

7.63		Sp ?	<p>This command answers the nominal system power.</p> <p>Default values :</p> <table border="1" data-bbox="868 174 1283 286"> <tr> <td></td> <td>U2 2200</td> <td>U2 3200</td> </tr> <tr> <td>EUR</td> <td>1540W</td> <td>2080W</td> </tr> <tr> <td>US</td> <td>1540W</td> <td>2080W</td> </tr> </table> <p>Resolution : 1W Unit : W</p> <p>Example : nominal inverter power is 490 W Sp ?<End-C> answer is : 00490<End-A></p>		U2 2200	U2 3200	EUR	1540W	2080W	US	1540W	2080W	implement
	U2 2200	U2 3200											
EUR	1540W	2080W											
US	1540W	2080W											
7.64		Sq	<p>Self Test / fault results : <DATA1><SP><DATA2></p> <p>Minimum value : 0 Maximum value : 65535 Default value is : 0 (no Default)</p> <p>The system query is a decimal value. Battery unavailable is 1, input frequency out of range is 4, charger fail is 256, and for example battery unavailable and input frequency out of range is 1 + 4 = 5.</p> <p>Example : Sq<End-C> with no Default answer is : <0><End-A></p>	implement									
7.65		Ss	<p>System Status : <STATUS1></p> <p>Default value is : 0XX00000</p> <p>Ss.1.0 is set if Ss.1.4 or inverter fault Sq.1.6. Ss.1.1 is set if the UPS is in overload. Ss.1.2 is set if the UPS is on battery. Ss.1.3 is set if the battery level is less than the Low Level threshold (set by "BI data"). Ss.1.4 is set if the battery is unavailable Ss.1.7 is set if an alarm occurs : Bs.1.4 or Ss.1.4 or Sq.1.{0, 1, 2, 5, 6} or Sq.2.{0, 3, 4}</p> <p>Example : Ss<End-C> with no Default answer is : <0XX00000><End-A></p>	implement									
7.66		Sx0	<p>This command allows to set the UPS OFF. The real signification and implementation way for this command is given in annex in grafLION grafcet.</p> <p>Example : Sx 0<End-C> answer is : OK<End-A></p>	implement									
7.67		Sx1	<p>This command allows to set the UPS ON. The real signification and implementation way for this command is given in annex in grafLION grafcet.</p> <p>Example : Sx 1<End-C> answer is : OK<End-A></p>	implement									

7.68		Sx10	<p>This command allows to cancel the 5 min unloaded autonomy. In other words, if during autonomy load = 0, after 5 min the UPS doesn't stop if Sx 10.</p> <p>Example : Sx 10<End-C> answer is : OK<End-A></p>	implement
7.69		Sx11	<p>This command allows to valid the 5 min unloaded autonomy. In other words, if during autonomy load = 0, after 5 min the UPS stops totally if Sx 11.</p> <p>Example : Sx 11<End-C> answer is : OK<End-A></p>	implement
7.70		Sx12	<p>With a stopped on overload UPS, this command allows to cancel the overload minor Default and its associated status are Ls.1.4 and Ss.1.1. After that, the UPS could restart normally with Sx 1 command. If no overload Default or UPS not still stopped, answer is NOK.</p> <p>Example : Sx 12<End-C> answer is : OK<End-A> (if overload Default) answer is : NOK<End-A> (if no overload Default)</p>	implement
7.71		Sx13	<p>This command allows to valid the cold start option and its associated status is Ls.2.6 (= 1 in this case).</p> <p>Example : Sx 13<End-C> answer is : OK<End-A></p>	implement
7.72		Sx14	<p>This command allows to cancel the cold start option and its associated status is Ls.2.6 (= 0 in this case).</p> <p>Example : Sx 14<End-C> answer is : OK<End-A></p>	implement
7.73		Sx4	<p>This command invalidates automatic restart of UPS. The real signification and implementation way for this command is given in annex in grafLION grafcet. If disable automatic restart of UPS, you have to reset (= 0) Ls.2.3 (see Ls command).</p> <p>Example : Sx 4<End-C> answer is : OK<End-A></p>	implement
7.74		Sx5	<p>This command validates automatic restart of UPS. The real signification and implementation way for this command is given in annex in grafLION grafcet. If valid automatic restart of UPS, you have to set Ls.2.3 (see Ls command).</p> <p>Example : Sx 5<End-C> answer is : OK<End-A></p>	implement
7.75		Sx6	<p>This command invalidates 10 seconds UPS OFF after Sm delay even if utility is ON. The real signification and implementation way for this command is given in annex in grafLION grafcet. If Sx6, you have to reset (= 0) Ls.2.4 (see Ls command).</p> <p>Example : Sx 6<End-C> answer is : OK<End-A></p>	Implement

7.76		Sx7	<p>This command validates 10 seconds UPS OFF after Sm delay even if utility is ON. The real signification and implementation way for this command is given in annex in grafLION grafcet.</p> <p>If Sx7, you have to set Ls.2.4 (see Ls command).</p> <p>Example : Sx 7<End-C> answer is : OK<End-A></p>	Implement
7.77		Ts	<p>Communications Status : <STATUS1></p> <p>Default value is : 0X00XX00</p> <p>Ts.1.0 is set if the UPS is "multidrop capable" (In other words, Au answer could be greater than 1)</p> <p>Ts.1.1 is set if a A command occurred. It is reset (=0) if a Z command occurs.</p> <p>Example : Ts<End-C> with echo disabled answer is : <XXXXXX00><End-A></p>	Implement
7.78	U command	Uf	<p>This command answers the measured utility frequency.</p> <p>Minimum value : 40 Maximum value : 70 Possible values : 40, 70 and between Unit : Hertz</p> <p>Example : Uf<End-C> answer is : 50<End-A> for EUR version</p>	implement
7.79		Us	<p>Utility Status (Command: Us) : <STATUS1></p> <p>Default value is : XXXXXX00</p> <p>Us.1.0 is set if Utility voltage is out of tolerance or no utility. Us.1.1 is set if frequency voltage is out of tolerance or no utility.</p> <p>Example : Us<End-C> with utility frequency out of tolerance answer is : <XXXXXX10><End-A></p>	Implement
7.80		Uv	<p>This command answers the measured utility voltage.</p> <p>Minimum value : 0 Maximum value : 65535 Resolution = 1 Centivolt. Unit : centivolt</p> <p>Example : actual utility voltage is : 223.5 V</p> <p> Uv<End-C> answer is : 22350<End-A></p>	implement
7.81~7.97	W command		output switch command(For all W command)	Can't

7.98	X commnd	Xh ?	<p>his command allows to read the input frequency control range. When input line is inside this range, then inverter frequency is synchronised with input line frequency. When input line is out of this range, then inverter frequency is not synchronised with input line frequency. Inverter is in “ locked output frequency ” mode. See Xh data command for more explanations.</p> <p>Minimum value : 1 Maximum value : 10 Default value : 5 Unit : %</p> <p>Example : Xh ?<End-C> answer is: 5<End-A> Xh 8<End-C> answer is: OK<End-A></p>	Implement
7.99		Xh data	<p>This command allows to modify the input frequency control range. Specified value is the absolute percentage value for input frequency control.</p> <p>Minimum value : 1 Maximum value : 10 Default value : 5 Unit : %</p> <p>Example : Xh 8<End-C> answer is: OK<End-A></p>	Can't
7.100		Xo data	<p>This command defines some special fashions of working of the UPS.</p> <p>Minimum value : 2 Maximum value : 3 Possible values : 2, 3 Default value : 3 (remote control available) 2: to forbid the stop of the UPS from afar by command. 3: to allow the stop of the UPS from afar by command. Example : to allow the working with remote shutoff enabled : Xo 3<End-C> answer is : OK<End-A></p>	Implement
7.101		Xp ?	<p>This command reads the coded value for LAC type.</p>	Can't
7.102		Xp data	<p>This command defines LAC charger type for LAC product.</p>	Can't
7.103		Xs	<p>X-command Status : <STATUS1></p> <p>Example : to allow the working with remote shutoff enabled : Xo 3<End-C> answer is : OK<End-A> Xs<End-C> XXXXXX1X<End-A></p> <p>To disable remote shutoff : Xo 2<End-C> answer is : OK<End-A> Xs<End-C> XXXXXX0X<End-A></p>	Implement

7.104	Z command	Z	<p>This command disables the echo character mode. No answer for this command.</p> <p>Example : Z<End-C> no answer Ts<End-C> answer is : XXXXXX00<End-A></p>	Implement
7.105	<Break><Break> command	<Break><Break>	<p>This command answers the Plug&Play Identification string.</p> <p>Minimum value : none Maximum value : none Default value : (see content detailed in the table hereafter). Unit : none</p> <p>Example : <Break><Break><End-C> answer is : (□\$MGEUPS \\\MERLIN GERIN UPS with PnP INTERFACE26)<End-A></p>	Can't