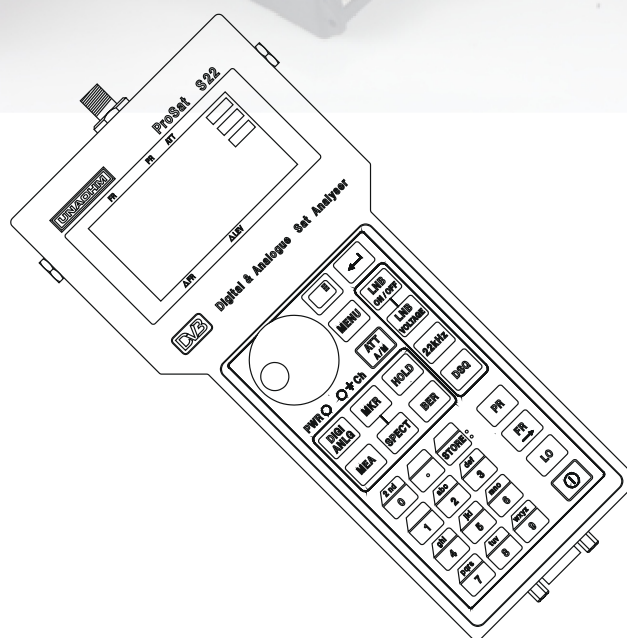




UNAOHM START S.r.l.

S 22 / S22 Plus

RS 232 Commands



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PROSAT S22/S22PLUS: RS232 Command List

NOTES:

- ⇒ Many commands may be used both for programming and as a request for information: for this purpose insert a question mark in the command line as shown in parenthesis in the column Command/Request (do not insert the parentheses themselves).
- ⇒ The response to the commands is "OK" for commands that are recognized as valid, on the contrary there will be an error message.

Command/request	Response	NOTES
ATTEN (?) X	X	Attenuator setting/request. X from 0 to 5, tenths of dB's. X = 6 Automatic.
AUTOPOWEROFF (?) X	X	Setting of/request for minutes before instrument autpoweroff. X from 0 to 15
AUTOPOWEROFFLCD (?) X	X	Setting of/request for seconds before LCD readout backlight autpoweroff. X from 0 to 60
ASLDEL X		(For PLUS version only) Deletes satellite X storage in ASL function.
ASLLEARN X		(For PLUS version only) Stores a satellite in X location of ASL function.
ASLNAME (?) X string	List of ASL satellites	(For PLUS version only) Stores the name described in "string" at X location of ASL function.
BERQPSK		Switching to BER mode.
BERQPSK?	X	BER request. The response includes the Channel BER, post Viterbi BER, CFO.
BLIGHT (?) X	X	Display backlight command. X: 1 = to turn on, 0 = to turn off.
BUZZER (?) X	X	Buzzer command. X: 1 = to turn on, 0 = to turn off.
CHBW (?) X	X	Setting/request of the bandwidth of the channel for the DCP calculation. X: Bandwidth in MHz from 1 to 40.
CODERATEQPSK (?) X		Code Rate request/programming. X: 0=1/2, 1 = 2/3, 2 = 3/4, 3 = 5/6, 5 = 7/8, 6 = Automatic.
CONTRAST (?) X	X	Display contrast programming/request. X: contrast between 0 and 250.
CURRENTVALUE		Performs immediate acquisition.
DATADELALL		Cancels all the data logger data.
DATADELLAST		Cancels the last data acquired by the data logger.
DATAIN		Initiates data logger acquisitions.
DATALASTOUT		Requests last acquisition data.
DATAOUT	Data logger data	Requests all logged data.
DATAPROGRAM (?) XX YY Z	XX YY Z	Setting of DLPrG mode and its related programs. XX: program position from 0 to 42; YY: program number; Z: program status. 0=inactive; 1=active.
DELETE		Cancels the program currently set.
DELETE X		Cancels the program X.
DEVICE (?) X	X	Printout format programming/request. X: 0 = optimized for PC, 1 = for external printer.
DISEQC X		Transmission of a DiSeqC command. X: number of the command according to the table in Chap. 8.1.11.1.
DISEQCMOT XX YY ZZ		Driving a motor according to DiSeqC 1.2. standard ⇒ xx: 00= STOP MOTOR ⇒ xx: 01= START MOTOR EAST

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		⇒ xx: 02= START MOTOR WEST ⇒ xx: 03= DISABLE LIMITS ⇒ xx: 04= SET EAST LIMIT ⇒ xx: 05= SET WEST LIMIT ⇒ xx: 06= STORE SAT POS MTR; yy: program (1 to 99) ⇒ xx: 07= RECALL SAT POS MTR; yy: program (1 to 99) ⇒ xx: 08= START EAST TO; yy: 1 to 99 SECONDS or STEPS; zz: 00= motion by TIME 01= motion by STEP ⇒ xx: 09= START WEST TO; yy: 1 to 99 SECONDS or STEPS; zz: 00= motion by TIME 01= motion by STEP ⇒ xx: 10= RECALC. SAT POSITIONS ⇒ xx: 11= RESET
DISEQCUSER (?) X Y	1 string ₁ 1 string ₂ 1 string ₃ 1 string ₄	Setting/request of the four DiSEqC commands available to the user. Bytes to transmit are to be indicated in hexadecimal in the string.
FREQ (?) X	X	Sets the frequency X between 920 and 2150 MHZ. If the local oscillator has been activated, add the oscillator value to the frequency.
HMODE (?) X	X	Hold mode programming 0=Freeze, 1=Min, 2=Max.
HOLDONOFF (?) X	X	Enables/disables the hold mode. X: 0= disabled, 1=enabled.
LEVANL	X	Analogue level request. X = level.
LEVDCP		Digital level request.
LNB (?) X	X	LNB turn on/off . X: 0 = turns off, 1= turns on.
LNVOULT (?) X	X	LNB voltage programming . X = 13 or 18.
LOCOSC (?) X Y	X Y	Local oscillator programming/request. X: from 0 to 4 (0=1°IF, from 1 to 4 oscillator number), Y from 3000 to 12000 (frequency). The command may be used without Y for the selection of the oscillator.
LOGO (?) X	X	Instrument logo setting. X = logo, 80 characters maximum.
MARKER (?) X Y	X Y Z	Marker modality setting/request: X: 0 = marker 1; 1= marker 2. Y: 0 = analogue ; 1 = digital. Z : 0 =marker 2 analogue; 1 = marker 2 digital.
MEASURE	X	Measurement mode switching.
OUTPUTMODE	X	Sets printing mode. X:0 = CURRENT; 1 = TEXT; 2 = Histogram; 3 = TEXT+HIST
POLARITYQPSK (?) X	X	Spectrum request. X=0=direct, 1 = inverted.
PROGRAM (?) X	X	Program setting/request. X from 0 to 99.
SHUTDOWN		Shuts down unit.
SPAN (?) X	X	Span setting/request. X: 0=full, 1-5 span.
SPANOUT		Spectrum printing to output setting.
SPANPR (?) X	X	Setting of/Request for number of programs in DLPrG function.
SPANPROUT		Printing of of programs in DLPrG function according to output setting.
STORE		Storage of selected program.
SYMBRATEQPSK (?) X	X	Symbol Rate setting/request. X from 1000 to 45000.
TONE22K (?) X	X	X=1 switches 22kHz tone on; X=0 switches it off.
UNIT (?) X	X	Measurement unit setting/request. X: 0 = dBµv, 1 = dBmv, 2 = dBm.

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VER	info	Request for software release number info: response
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