

Packet TNC Commands Summary:

The TNC responds to three types of command:

1. Direct commands. These require no additional information. Denoted in the form XY where X and Y are two characters.
2. Alphanumeric Entry Commands. These require the user to enter numbers or text after entry. Denoted in the form XY(n) or XY(abcdef) where (n) is a number and (abcdef) are characters or control characters.
3. Mode setting commands. These are followed by either E for enable or D for disable. Denoted in the form XY(E/D). Comments below indicate the "Enabled" state.

1. Setup Commands:

S(Return) Display system status.
 SB(D/E) Enable Carrier Backoff
 SC(callsign) Set TNC Callsign
 SD(callsign) Set Destination Callsign
 SE(D/E) Enable Console Echo
 SF(n) Set preamble to n flags
 SG(D/E) Enable "garbage" mode
 SH(n) Set highest number of frames per packet to n
 SI Re-Initialise the system
 SJ(n) Set Link Baud Rate
 SK(n) Set Transparent Mode time value to n/50 seconds.
 SL(n) Set maximum Packet length to n
 SM(n) Allocate n 256-byte memory blocks to transmit buffer
 SN(n) Set number of re-tries to n
 SQ(n) Set value for T2 (connection timer)
 SR(B/D/H or O) Set number system radix to binary/decimal/hex or octal
 SS(n) Set CW identification speed to n WPM
 ST(n) Set re-try time delay to nominal n/10 seconds
 SU(D/E) Convert all output to upper case
 SV(callsign) Enter repeater callsign
 SY(abcdefghikl) Set Control characters for Insert and Chat modes.
 SZ(E/D) Enable Leading zeros

Manual Operations:

MA(n) Set address field value to n
 MC(n) Set control field address to n
 MD Manually disconnect link from this end
 ME(n) Set transparent mode exit character
 MF(D/E) Output automatic linefeeds after each Return
 MI Send CW identification
 MK(D/E) Allow "-- Ack --" Message in chat mode
 ML(D/E) Allow automatic entry into chat or transparent modes on connect.
 MM Display number of 256-byte memory blocks available
 MR(D/E) Enable AX25 repeater operation (default)
 MS Manually enter chat or transparent modes
 MT Transmit a custom packet using information in the buffer
 MU(D/E) Set unconnected mode
 MV(D/E) Enable eavesdropping on repeated packets
 MX(D/E) Enable transparent as opposed to chat mode
 Automatic operation commands:
 AA Send +Info Acknowledge+ packet. Used after AW
 AC Initiate automatic connect request to another station
 AD Initiate automatic disconnect request
 AH Halt. Stop repeating unacknowledged packet
 AI Send unnumbered info packet (AX25)
 AR Resume sending. Used after AH
 AS(D/E) Set standby mode. No Tx/Rx
 AT Transmit current Packet until acknowledged
 AW Send a +Wait Acknowledge+ to stop further transmission from the other station. See AA
 AX Abort current transmission
 Debugging Commands:
 DD(n) Display 1 line of HEX bytes in memory at n
 DH Transmit the modem hi tone
 DL Transmit the modem lo tone
 DO Stop tone transmissions

DS(n)(n)	Used to set individual bytes of memory as required	BT	Set time value for repetition of beacon message
DT(n)	Display 1 block of memory at n in Ascii	BV(callsigns)	Set beacon repeater callsigns

Input/Output Commands:

I(ab)(data)	Enter ab bytes of data in block mode. ab is an unsigned 16 bit number
I(data)	Enter all bytes following until ©D or ESC into the message buffer (normal mode) ©D will revert to display mode remaining in chat mode while ESC will exit chat and insert modes
K	Kill buffer contents
T	Type Buffer contents
OA(callsign)	Recieve only packets recieved from (callsign) (AX25)
OB(D/E)	Enable Block mode
OD(D/E)	Enable non-info data display
OF	Output one frame from the queue. Use with OQ enabled
OH(D/E)	Enable header display
OI(n)	Set value of Chat mode timer
OL(D/E)	Enable auto linefeed after Return (Transmitted data)
OM(D/E)	Enable RTTY motor control (if using a baudot teleprinter)
ON(n)	Insert n nulls after each Return. (gives some mechanical printers time to recover from the heady task of returning the carriage!)
OO(D/E)	Enable connect only mode
OP(n)	Set PID value to n
OQ(E/D)	Enable Queue mode (while your computer is doing other things...)
OU(D/E)	Enable status update displays
OW(n)	Limit the displayed page width to n characters

Beacon commands:

BC	Copy beacon callsigns into active use
BD(callsign)	Set Beacon destination callsign
BK	Kill beacon message
BR	Recall beacon message
BS	Store message in buffer into beacon buffer