RTS-2 Command Summary

Commands available from TEST or PROGRAM MODES:

00: Hangup
01: Exit TEST or PROGRAM MODE; provide ACCESS PROMPT
02tt: Modify timeout for commands 1-4, 71-74, 81, this session; tt=00-99 seconds
040: Standard call in-progress commands (###, ##0, ##8, ##1), this session
041: Alternate call in-progress commands (*##, *#0, *#8, *#1), this session
05dnn...n#[#]: Callback to telephone number nn...n, dial type d=2-4

1ℓ: Seize line ℓ
2ℓnn...n#[#]: DTMF dial telephone number nn...n at standard rate on line ℓ
3ℓnn...n#[#]: DTMF dial telephone number nn...n at slow rate on line ℓ
4ℓnn...n#[#]: Pulse dial telephone number nn...n on line ℓ
5ℓ: Listen for ringing on line ℓ; exit with #, answer with * (v1.3 and later)

60: Identify the unit number, 6 digits
61: Identify the incoming line, 1 digit
62: Read the number of TEST MODE accesses, 3 [6] digits
63: Read the number of PROGRAM MODE accesses, 3 [6] digits
64: Read the number of access Failures, 3 [6] digits
65: Read the number of access Answers, 3 [6] digits
66: Read the number of active Minutes, 3 [6] digits
67: Read the firmware version, 2 digits
68: Read the ROM checksum, 2 digits

71: 1000 Hz test signal at 0 dBm level
72: Test signal of programmable freq./level
73: 3000 Hz test signal at 0 dBm level
74: 400 Hz test signal at 0 dBm level

While commands 71-74 are in progress, exit with #

v1.4+: exit with * if alternate call in-progress commands selected (041)

81ℓ: Monitor line ℓ, ℓ=2-8
82: Measure and store signal level on access line
83: Read previously stored signal level, 2 digits
84: Playback DTMF digits; exit with #

While commands 1-4, 81 are in progress:
[*##]: Release line and return to TEST or PROGRAM PROMPT
##8 [*#8]: Measure and store signal level on outgoing line

While commands 1-4 are in progress:
##0 [*#0]: send a hookflash
##1 [*#1]: Transmit 10 second 1000 Hz tone at 0 dBm to outgoing line (v1.4+)

ℓ = 1-8 line number
n,c = 0-9, A-D digit
*: Cancel current entry

The 9 commands must be issued from PROGRAM MODE:

90173: Initialize all parameters except Unit ID (v1.0-1.2 see section 3.2)
90249: Clear all counts (62-66 commands)
91cc...c#cc...c#: Set the TEST CODE to cc...c (identical entry)
92cc...c#cc...c#: Set the PROGRAM CODE to cc...c (identical entry)
93ppvvv: Write value vvv=000-255 decimal into parameter pp=00-98
94pp: Read parameter pp, 2 hexadecimal digits

Parameters pp:

00-02 ID
03 Bit Parameter -- sum values:
- 128 = Telephone Instrument on line #1
- 64 = Short counts
- 32 = Autoreset
- 16 = WatchDog Timer
- 8 = Line Monitor capable
- 4 = Ground Start capable
- 2 = Logging port active
- 1 = immediate Ring Trip

04 Bit Parameter -- sum values:
- 8 = Automatic MACHINE RESPONSE MODE selection
- 4 = Alternate Call In-Progress commands
- 2 = Automatic PROGRAM MODE selection
- 1 = Automatic TEST or PROGRAM MODE entry

05 Disconnect Time, times 10 milliseconds
06-08 Ring On, Ring Off, Ring Loss Detect Times, tenth seconds
09-10 Number of Rings to Answer Line #1, Lines #2-8
11 Enable Line Answering; 128-64-32-16-8-4-2-1 = lines 8-1
12-14 Line Identification, Call Forwarding, Responder functions as above
15 Responder Cycles + 1
16 Access Time, seconds
17-18 Overall and InActivity Times, minutes (000=disable)
19 default Seize Timeout, seconds (000=disable)
20 HookFlash Time, milliseconds
21-22 Escape Pound, Callback Hangup Times, seconds
23-24 Custom 72 and Gain Profile settings
25-31 Access, Dial, In, Out, Test Tone, Measure, Monitor Gain Profiles:
000=0/0; 001=-1.5/-1.5; ~~002=+3/+3~~; 003=+3/-3; 004=-6/0; 005=-3/-3
(dB Rx/Tx, add 128 for adaptive balance)
32-34 Dial String 1, ID, Call Forwarding Starts; starting parameter + 14
35-49 Dial String 234 contents, must start at 35
35-49 Dial String 1, ID, Call Forwarding contents
50-98 Programmable Profiles and Variable Tone contents
51-98 Stored Digits, 6 parameters each, lines 1-8