WIRELESS EXPANSION (Zones 1-63)

4280/4280-8 RF RECEIVER

The VISTA XMP system supports up to 63 wireless transmitters (5700 series), plus a 5727 wireless keypad. To expand the system using wireless, one or two 4280 RF Receivers (or 4280-8 if only 8 wireless zones are used) must be connected to the polling loop. The 4280 receives status and alarm signals from wireless transmitters (@345MHz USA; 315MHz Canada) within a nominal range of 200 feet, and relays this information to the control via the polling loop. Two 4280s can be used to provide either a greater area of coverage, or provide redundant protection.

IMPORTANT: Note that if using two RF Receivers, one of them must be powered from auxiliary power. For more information regarding the 4280 installation, refer to the installation instructions provided with the 4280.

NOTE: Unless stated otherwise, references to the 4280 Receiver represent the 4280 and/or 4280-8 Receivers.

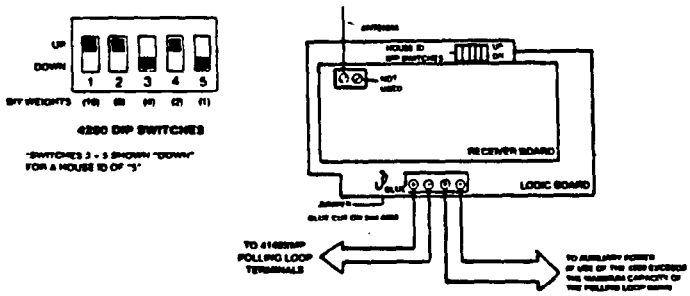


Figure 3. 4280/4280-8 RF RECEIVER

PROGRAMMING NOTES FOR WIRELESS DEVICES

All RF zones must be designated as such in their respective program fields (1*18-1*25). Any zone from 1-63 can be designated as an RF zone. To enable a zone as wireless, simply enter a "1" in the location for that zone. **Be careful when designating RF zones.** If you want a zone to be either hard-wired or on the polling loop, but accidentally enable it as RF, the system will ignore that zone. RF enable overrides hard-wire! If using a 4280-8, only up to 8 zones can be enabled as RF zones. If more than 8 zones are enabled, the message "SET-UP ERROR" (5137) or "E8" (4137/4127) will be displayed.

SUPERVISION

Each transmitter (except 5701 and 5727) is supervised by a check-in signal that is sent to the receiver at 70-90 minute intervals. If at least one Check-in is not received from a transmitter within a programmed interval (field 1*31), the console will display the transmitter number and "CHECK" will be displayed.

Each transmitter (including 5701 and 5727) is also supervised for low battery conditions, and will transmit a low battery signal to the 4280 when the battery has approximately 30 days of life remaining.

NOTE: After replacing a low or dead battery, activate the transmitter and enter the security code + OFF to clear its memory of the "Low Battery" signal.

The 4280 itself is also supervised three ways:

1. If the cover of the 4280 is removed, an ALARM or TROUBLE will be displayed depending upon the response programmed for zones 89 & 91 (field 1*09).
2. If the connection is broken between the 4280 and the control panel, or the 4280's cover is removed, an ALARM or TROUBLE will be displayed depending on the response programmed for zones 89 & 91 (field 1*09). This response is usually that of a DAY/NIGHT or 24 hour type.
3. If, within a programmed interval of time, the 4280 does not hear from *any* of its transmitters, an ALARM or TROUBLE will be displayed depending on the response programmed for zones 88 & 90 (fields 1*08 & 1*09).

HOUSE IDENTIFICATION

The 4280 responds only to transmitters with the same house ID (DIP switch programmable from 01-31). This prevents system interference from transmitters in other nearby systems. To make sure you do not choose a House ID that is in use nearby, put the system in the Sniffer Mode, which is described later in this section.

TRANSMITTER IDENTIFICATION

Each transmitter has its own unique ID number (Zone #), which is DIP switch programmable in each unit. Whenever a transmission takes place, either for an alarm, fault, check-in or low battery, this ID number is sent along with the message to the 4280 which, in turn, relays this information to the control panel, which displays the condition and zone number on the console. See the DIP SWITCH TABLES FOR WIRELESS DEVICES at the end of this manual, for individual transmitter settings.

SNIFFER MODE TO DETERMINE HOUSE ID (Code + [#] + 2)

To check for house IDs being used in nearby systems, set the DIP switches in the 4280 for a House ID of "00" (all switches up), then enter your "Installer Code" + [#] + [2]. The 4280 will now "sniff" out any House IDs in the area and display them. Keeping the 4280 in this mode for about 2 hours will give a good indication of the house IDs being used. To exit the Sniffer Mode, simply key your installer code + OFF, then set your house ID to one not displayed in the "Sniffer Mode".

SNIFFER MODE TO CHECK TRANSMITTERS (Code + [#] + 3)

To check that all transmitters have been set for the proper house ID, set the 4280 to the proper house ID and enter the Installer code + [#] + [3]. All transmitter ID numbers that have the house ID set for the 4280 will be displayed when each transmitter number checks in (up to 2 hours). A faster way to do this is to fault each transmitter, which causes a transmission to be sent to the 4280. Check that the ID number is displayed when the transmitter is faulted.

GO/NO GO TEST MODE (Patented)

This mode helps determine the best location for each transmitter and is activated by putting the control panel in the TEST mode and removing the 4280's cover. The receiver's sensitivity is reduced by half. Once transmitters are placed in their desired locations and the approximate length of wire to be run to sensors is connected to the transmitter's screw terminals, open circuit each transmitter. *Do not conduct this test with your hand wrapped around the transmitter.*

If a single 4280 is used, the console will beep three times to indicate signal reception. If two 4280s are used, the console will beep once if the first 4280 received the signal, twice if the second 4280 received the signal and three times if both receivers heard the signal (which is desirable for redundant configurations).

If the console does not beep, reorient or move the transmitter to another location.

To exit this mode, replace the 4280's cover, then enter the installer code and press OFF. Note that the Receiver's sensitivity is fully restored when the cover is replaced.

IMPORTANT BATTERY NOTICE

The VISTA wireless transmitters are designed to provide long battery life under normal operating conditions. Longevity of batteries may be as much as 4-7 years depending on the environment, usage, and the specific wireless device being used. External factors such as humidity, high or low temperatures, as well as large swings in temperature may all reduce the actual battery life in a given installation. The VISTA wireless system can identify a true low battery situation, thus allowing the dealer or user of the system time to arrange a change of battery and maintain protection for that given point within the system.

WIRELESS ZONE TYPES

Each RF zone can be programmed to respond as any zone type such as ENTRY/EXIT, INTERIOR, PERIMETER, etc. (see the section under ZONE TYPES for a complete explanation of each zone type). Desired alarm responses can be broken down as follows:

ZONE TYPE	TRANSMITTER ID #
Entry/Exit Burg	1 through 47 *
Perimeter Burg	1 through 47 *
Interior Burg	1 through 47 * 32 through 47 * (5775)
Fire	48 through 63 * 48 through 55 ** (5706)
24 Hour Panic (silent or audible)	48 through 63* 62 or 63 *** (5701)
Day/Night Burglary	1 through 47 *
24 Hour Auxiliary	1 through 47 *

ADVISORIES

1. Do not place transmitters on or near metal objects. This will decrease range and/or block transmissions.
2. Place the 4280 in a high, centrally located area for best reception. Do not place receiver on or near metal objects.
3. The 4280 receiver must be at least 10 feet from the Control panel or any remote consoles to avoid interference from their microprocessor.
4. When connecting a door/window contact to a 5711, 5711WM, or 5715 transmitter, avoid a wire length of 20-24 inches. This particular length decreases range. A shorter or longer length has no effect.

   For UL Household Burglary Installations, wired loops connected to these devices cannot exceed 3 feet.
5. If dual 4280s or 4280-8s are used:

   A. Both must be at least 10 feet from each other, as well as from the Control panel and remote consoles.

   B. One of the 4280s or 4280-8s must be powered from Aux. power so as not to exceed 64 mA polling loop current rating.

   C. The house IDs must be the same.

   D. Using two Receivers *does not* increase the number of transmitters the system can support (63 transmitters, plus a wireless keypad).
6. Refer to the maximum polling loop wire runs described in the POLLING LOOP section when connecting 4280s to the polling loop.

   IMPORTANT: The maximum combined polling loop run is 4000'. If using shielded wire, the maximum is 2000'.

NOTES:

* Note that zones 1-63 can be used, but have the following limitations: Transmitters set for zones 48-55 will transmit once every 12 seconds while the zone is faulted. Transmitters set for zones 56-63 will transmit once every 3 seconds while faulted. These two ranges of zone numbers could adversely affect transmitter battery life. Transmitters set for an ID of 32 through 47 will have a 3 minute lock-out between transmissions. Use this last range of zone ID numbers for sensors protecting frequently used doors or windows to conserve battery life.

** Transmitter IDs 48 through 55 have highest signal priority.

*** Transmitter IDs 62 and 63 are unsupervised to allow removal of the 5701 off premises – signal priority is lower than that of fire, but higher than burglary.

WIRELESS DEVICES

See the PERIPHERAL DEVICES section for compatible wireless smoke detectors and passive infrared motion detectors.

5701 Panic Transmitter

- Programmable for either silent or audible 24 hour alarm (DIP switch programmed for zones 62 or 63).

5711 Slimline Door/Window Transmitter

- Can be used with any closed circuit sensor. NOTE: Can be used on any zone 1-63 but, if programmed for zones 32-47, there will be a 3 minute lock-out between transmissions.

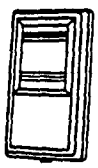
5711WM Door/Window Transmitter w/Reed Switch

- Slimline door/window transmitter with built-in reed switch (magnet included). Can be used with any closed circuit sensor. NOTE: Can be used on any zone 1-63 but, if programmed for zones 32-47, there will be a 3 minute lock-out between transmissions.

5716 Door/Window Transmitter

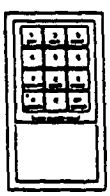
- Can be used with any open or closed circuit sensor (DIP switch selectable), and features a built-in reed switch. NOTE: Can be used on any zone 1-63 but, if programmed for zones 32-47, there will be a 3 minute lock-out between transmissions.

5715WH Universal Transmitter



- DIP switch selectable for fast response, open or closed circuit sensor usage, and has a tamper protected cover. Use in applications where open circuit heat detectors are needed or where fast response devices are needed.
  NOTE: Can be used on any zone 1-63 but, if programmed for zones 32-47, there will be a 3 minute lock-out between transmissions.

5727 Wireless Keypad



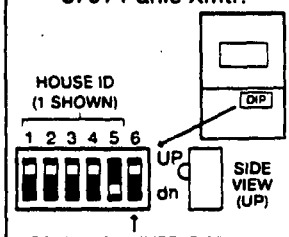
- Wireless keypad that can be used to turn the burglary protection on and off, and features the same built-in panic functions as wired consoles for either silent or audible 24 hour alarm. An LED indication lights each time a key is pressed to verify transmission (LED located in the [*] READY key).
- The keypad is identified as zone "00" when it transmits low battery messages. The keypad panics are identified as "99" for [*] + [#], "96" for [#] + [3], and "95" for [*] + [1] if programmed.

DIP SWITCH TABLES FOR WIRELESS DEVICES

House ID Switch Setting for All Devices Except 5716

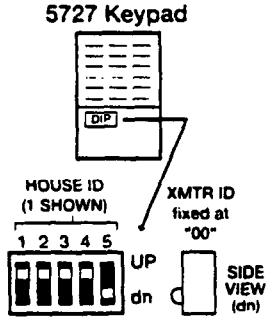
HOUSE ID	DIP SWITCH SETTINGS 1	2	3	4	5
1	UP	UP	UP	UP	dn
2	UP	UP	UP	dn	UP
3	UP	UP	UP	dn	dn
4	UP	UP	dn	UP	UP
5	UP	UP	dn	UP	dn
6	UP	UP	dn	dn	UP
7	UP	UP	dn	dn	dn
8	UP	dn	UP	UP	UP
9	UP	dn	UP	UP	dn
10	UP	dn	UP	dn	UP
11	UP	dn	UP	dn	dn
12	UP	dn	dn	UP	UP
13	UP	dn	dn	UP	dn
14	UP	dn	dn	dn	UP
15	UP	dn	dn	dn	dn
16	dn	UP	UP	UP	UP
17	dn	UP	UP	UP	dn
18	dn	UP	UP	dn	UP
19	dn	UP	UP	dn	dn
20	dn	UP	dn	UP	UP
21	dn	UP	dn	UP	dn
22	dn	UP	dn	dn	UP
23	dn	UP	dn	dn	dn
24	dn	dn	UP	UP	UP
25	dn	dn	UP	UP	dn
26	dn	dn	UP	dn	UP
27	dn	dn	UP	dn	dn
28	dn	dn	dn	UP	UP
29	dn	dn	dn	UP	dn
30	dn	dn	dn	dn	UP
31	dn	dn	dn	dn	dn
BIT VALUE:	16	8	4	2	1

5701 Panic Xmtr.

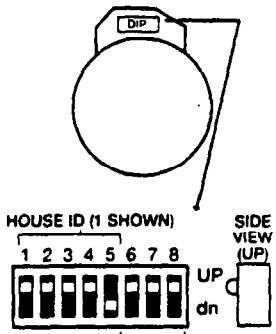


POS. 6: UP = XMTR ID 62
dn = XMTR ID 63

5727 Keypad

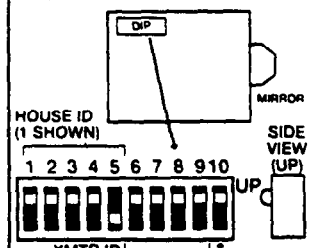


5706 Smoke Detector/Transmitter



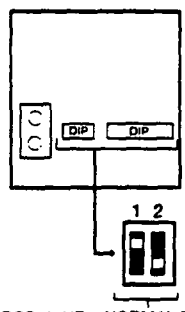
XMTR ID	DIP SWITCH SETTINGS 6	7	8
48	UP	UP	UP
49	UP	UP	dn
50	UP	dn	UP
51	UP	dn	dn
52	dn	UP	UP
53	dn	UP	dn
54	dn	dn	UP
55	dn	dn	dn

5775 PIR Detector/Transmitter



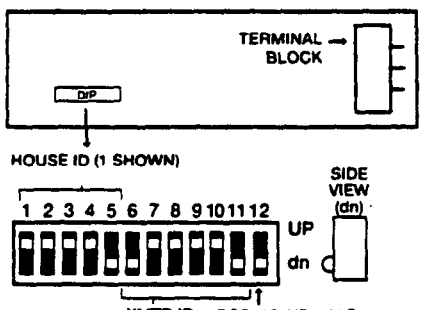
XMTR ID	DIP SWITCH SETTINGS 6	7	8	9
32	UP	UP	UP	UP
33	UP	UP	UP	dn
34	UP	UP	dn	UP
35	UP	UP	dn	dn
36	UP	dn	UP	UP
37	UP	dn	UP	dn
38	UP	dn	dn	UP
39	UP	dn	dn	dn
40	dn	UP	UP	UP
41	dn	UP	UP	dn
42	dn	UP	dn	UP
43	dn	UP	dn	dn
44	dn	dn	UP	UP
45	dn	dn	UP	dn
46	dn	dn	dn	UP
47	dn	dn	dn	dn

5715 Universal Xmtr.



POS. 1: UP = NORMAL RESPONSE
dn = FAST RESPONSE
POS. 2: UP = NO COVER TAMPER
dn = COVER TAMPER (use N.C. setting)

5711/5711WM Door/Window Transmitter



POS. 12: UP = N.O.
dn = N.C.
(Avoid ID 32-37 with N.O.)

XMTR ID	DIP SWITCH SETTINGS 1	2	3	4	5	6	7	8	9	10	11
1	UP	UP	UP	UP	UP	UP	UP	UP	UP	UP	dn
2	UP	UP	UP	UP	UP	dn	UP	UP	UP	UP	UP
3	UP	UP	UP	UP	UP	dn	dn	UP	UP	UP	dn
4	UP	UP	UP	UP	dn	UP	UP	UP	UP	dn	UP
5	UP	UP	UP	UP	dn	UP	dn	UP	UP	dn	dn
6	UP	UP	UP	UP	dn	dn	UP	UP	UP	dn	UP
7	UP	UP	UP	UP	dn	dn	dn	UP	UP	dn	dn
8	UP	UP	UP	dn	UP	UP	UP	UP	dn	UP	UP
9	UP	UP	UP	dn	UP	UP	dn	UP	dn	UP	dn
10	UP	UP	UP	dn	UP	dn	UP	UP	dn	dn	UP
11	UP	UP	UP	dn	UP	dn	dn	UP	dn	dn	dn
12	UP	UP	UP	dn	dn	UP	UP	UP	dn	dn	UP
13	UP	UP	UP	dn	dn	UP	dn	UP	dn	dn	dn
14	UP	UP	UP	dn	dn	dn	UP	UP	dn	dn	UP
15	UP	UP	UP	dn	dn	dn	dn	UP	dn	dn	dn
16	UP	dn	UP	UP	UP	UP	UP	dn	UP	UP	UP
17	UP	dn	UP	UP	UP	UP	dn	dn	UP	UP	dn
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19	UP	dn	UP	UP	dn	UP	dn	dn	UP	dn	dn
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21	UP	dn	UP	dn	UP	UP	dn	dn	dn	UP	dn
22	UP	dn	UP	dn	dn	UP	UP	dn	dn	dn	UP
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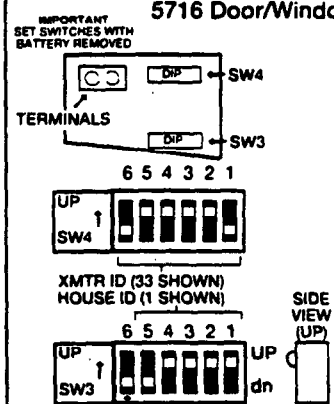
24	UP	dn	dn	UP	UP	UP	UP	dn	dn	dn	dn
25	UP	dn	dn	UP	UP	dn	UP	dn	dn	dn	UP
26	UP	dn	dn	UP	dn	UP	UP	dn	dn	dn	UP
27	UP	dn	dn	UP	dn	dn	UP	dn	dn	dn	dn
28	UP	dn	dn	dn	UP	UP	UP	dn	dn	dn	UP
29	UP	dn	dn	dn	UP	dn	UP	dn	dn	dn	UP
30	UP	dn	dn	dn	dn	UP	UP	dn	dn	dn	UP
31	UP	dn	dn	dn	dn	dn	UP	dn	dn	dn	dn
32	dn	UP	UP	UP	UP	UP	UP	dn	dn	dn	dn
BIT VALUE:	32	16	8	4	2	1					

XMTR ID	DIP SWITCH SETTINGS 1	2	3	4	5	6	7	8	9	10	11
33	dn	UP	UP	UP	UP	UP	UP	UP	UP	UP	dn
34	dn	UP	UP	UP	UP	dn	UP	UP	UP	dn	UP
35	dn	UP	UP	UP	UP	dn	dn	UP	UP	dn	dn
36	dn	UP	UP	UP	dn	UP	UP	UP	dn	UP	UP
37	dn	UP	UP	UP	dn	UP	dn	UP	dn	UP	dn
38	dn	UP	UP	UP	dn	dn	UP	UP	dn	dn	UP
39	dn	UP	UP	UP	dn	dn	dn	UP	dn	dn	dn
40	dn	UP	UP	dn	UP	UP	UP	UP	dn	UP	UP
41	dn	UP	UP	dn	UP	UP	dn	UP	dn	UP	dn
42	dn	UP	UP	dn	UP	dn	UP	UP	dn	dn	UP
43	dn	UP	UP	dn	UP	dn	dn	UP	dn	dn	dn
44	dn	UP	UP	dn	dn	UP	UP	UP	dn	dn	UP
45	dn	UP	UP	dn	dn	UP	dn	UP	dn	dn	dn
46	dn	UP	UP	dn	dn	dn	UP	UP	dn	dn	UP
47	dn	UP	UP	dn	dn	dn	dn	UP	dn	dn	dn
48	dn	dn	UP	UP	UP	UP	UP	dn	UP	UP	UP
49	dn	dn	UP	UP	UP	UP	dn	dn	UP	UP	dn
50	dn	dn	UP	UP	UP	dn	UP	dn	UP	dn	UP
51	dn	dn	UP	UP	dn	UP	UP	dn	UP	dn	dn
52	dn	dn	UP	UP	dn	UP	dn	dn	UP	dn	UP
53	dn	dn	UP	UP	dn	dn	UP	dn	UP	dn	dn
54	dn	dn	UP	dn	UP	UP	UP	dn	UP	dn	UP
55	dn	dn	UP	dn	UP	UP	dn	dn	UP	dn	dn
56	dn	dn	UP	dn	UP	dn	UP	dn	UP	dn	UP
57	dn	dn	UP	dn	UP	dn	dn	dn	UP	dn	dn
58	dn	dn	UP	dn	dn	UP	UP	dn	UP	dn	UP
59	dn	dn	UP	dn	dn	UP	dn	dn	UP	dn	dn
60	dn	dn	UP	dn	dn	dn	UP	dn	UP	dn	UP
61	dn	dn	UP	dn	dn	dn	dn	dn	UP	dn	dn
62	dn	dn	dn	UP	UP	UP	UP	dn	dn	dn	UP
63	dn	dn	dn	UP	UP	UP	dn	dn	dn	dn	dn
BIT VALUE:	32	16	8	4	2	1					

5716 Door/Window Transmitter



HOUSE ID	DIP SWITCH SETTINGS 5	4	3	2	1
1	dn	UP	UP	UP	UP
2	UP	dn	UP	UP	UP
3	dn	dn	UP	UP	UP
4	UP	UP	dn	UP	UP
5	dn	UP	dn	UP	UP
6	UP	dn	dn	UP	UP
7	dn	dn	dn	UP	UP
8	UP	UP	UP	dn	UP
9	dn	UP	UP	dn	UP
10	UP	dn	UP	dn	UP
11	dn	dn	UP	dn	UP
12	UP	UP	dn	dn	UP
13	dn	UP	dn	dn	UP
14	UP	dn	dn	dn	UP
15	dn	dn	dn	dn	UP
16	UP	UP	UP	UP	dn
17	dn	UP	UP	UP	dn
18	UP	dn	UP	UP	dn
19	dn	dn	UP	UP	dn
20	UP	UP	dn	UP	dn
21	dn	UP	dn	UP	dn
22	UP	dn	dn	UP	dn
23	dn	dn	dn	UP	dn
24	UP	UP	UP	dn	dn
25	dn	UP	UP	dn	dn
26	UP	dn	UP	dn	dn
27	dn	dn	UP	dn	dn
28	UP	UP	dn	dn	dn
29	dn	UP	dn	dn	dn
30	UP	dn	dn	dn	dn
31	dn	dn	dn	dn	dn
BIT VALUE:	1	2	4	8	16

TRANSMITTER ID	DIP SWITCH SETTINGS 6	5	4	3	2	1
1	dn	UP	UP	UP	UP	UP
2	UP	dn	UP	UP	UP	UP
3	dn	dn	UP	UP	UP	UP
4	UP	UP	dn	UP	UP	UP
5	dn	UP	dn	UP	UP	UP
6	UP	dn	dn	UP	UP	UP
7	dn	dn	dn	UP	UP	UP
8	UP	UP	UP	dn	UP	UP
9	dn	UP	UP	dn	UP	UP
10	UP	dn	UP	dn	UP	UP
11	dn	dn	UP	dn	UP	UP
12	UP	UP	dn	dn	UP	UP
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14	UP	dn	dn	dn	UP	UP
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19	dn	dn	UP	UP	dn	UP
20	UP	UP	dn	UP	dn	UP
21	dn	UP	dn	UP	dn	UP
22	UP	dn	dn	UP	dn	UP
23	dn	dn	dn	UP	dn	UP
24	UP	UP	UP	dn	dn	UP
25	dn	UP	UP	dn	dn	UP
26	UP	dn	UP	dn	dn	UP
27	dn	dn	UP	dn	dn	UP
28	UP	UP	dn	dn	dn	UP
29	dn	UP	dn	dn	dn	UP
30	UP	dn	dn	dn	dn	UP
31	dn	dn	dn	dn	dn	UP
32	UP	UP	UP	UP	UP	dn
33	dn	UP	UP	UP	UP	dn
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38	UP	dn	dn	UP	UP	dn
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42	UP	dn	UP	dn	UP	dn
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44	UP	UP	dn	dn	UP	dn
45	dn	UP	dn	dn	UP	dn
46	UP	dn	dn	dn	UP	dn
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50	UP	dn	UP	UP	dn	dn
51	dn	dn	UP	UP	dn	dn
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54	UP	dn	dn	UP	dn	dn
55	dn	dn	dn	UP	dn	dn
56	UP	UP	UP	dn	dn	dn
57	dn	UP	UP	dn	dn	dn
58	UP	dn	UP	dn	dn	dn
59	dn	dn	UP	dn	dn	dn
60	UP	UP	dn	dn	dn	dn
61	dn	UP	dn	dn	dn	dn
62	UP	dn	dn	dn	dn	dn
63	dn	dn	dn	dn	dn	dn
BIT VALUE:	1	2	4	8	16	32