



Figure 1: System (top) and Scan (bottom) Front Panels



Figure 2: M7300 Series Mobile Radio Display

**P25/EDACS®/Conventional
M7300 Mobile Radios**



Radio Controls – User Interface

M7300 Radio Controls (refer to Fig. 1)

| | |
|--|---|
| Power On-Off Volume Control | Turn knob clockwise to power on the radio and increase volume. Turn counter-clockwise to decrease volume and power off the radio. |
| System/Group/Channel Control Knob | This rotary switch selects the systems or groups/channels, depending on programming. |
| Ramp Control | Scrolls through the System list or the Group/Channel list. The secondary function increments or decrements items within a list. |
| Scan ON/OFF | This button toggles scan operations ON and OFF. All groups and channels in the scan list of the currently selected systems are scanned. |
| Scan Add/Delete | Used to display the current SCAN status for a group/channel and then either add or delete the group/channel from the scan list. |
| TX BSY Indicators | Transmitter enabled - ON when the radio is transmitting. BUSY - On indicates a carrier is being received (the channel is busy). |

M7300 Status Icons

| | |
|--|---|
| | Indicates selected group or channel is in scan list. |
| | Indicates selected group or channel is programmed as Priority 2 in scan list. |
| | Indicates selected group or channel is programmed as Priority 1 in scan list. |
| | Indicates the EDACS system is in Failsoft™ mode (if enabled through programming). |
| | Volume bars – indicates relative volume level. |

M7300 Status Icons (continued)

| | |
|--|---|
| | Scan mode enabled. |
| | Indicates the current channel is set up as an analog channel. |
| | Indicates the current channel is set up as a ProVoice channel. |
| | Receiving or transmitting Encrypted Calls. |
| | Indicates a conventional channel enabled with Channel Guard Function. |
| | Indicates the current channel is set up as a P25 channel. |

M7300 Radio Keypad Functions

| | |
|---------------------|--|
| CLR or CLEAR | In Trunked mode, the CLR button exits the current operation and removes all displays associated with it. In Conventional mode, pressing this button unmutes the receiver so activity on the selected channel can be monitored. Press and hold for approximately 3 seconds to toggle conventional channel decoding (Channel Guard, Digital Channel Guard, T99) ON and OFF if programmed for the selected channel. |
| | Used to declare emergencies if enabled through programming. |
| DIS | Used to show the key ID and whether or not it is valid or available. |
| SCAN | Toggles scan operation ON and OFF. |
| A, B, C | Used to store and recall user-selectable parameters. |

M7300 Radio Keypad Functions (continued)

| | |
|----------------------|---|
| SYS | Used to enter the System Select mode. |
| OPT or OPTION | Used to toggle a PC programmable feature ON and OFF. |
| # | DTMF keypad function. |
| * | DTMF keypad function. |
| GRP | Used to enter the Group Select mode. |
| MENU | Primary function - accesses the menu list. This is a list of additional features that are not available directly from the keypad. Secondary function - activates a selected item within a list. Once activated, MENU continues its secondary function for activating a selected parameter setting until the radio returns to its normal receive state. |
| STS | Permits transmission of a pre-programmed status message to an EDACS® or P25 site. |
| MSG | Permits transmission of a pre-programmed message to an EDACS or P25 site. |
| IND | Used to call an individual or make an all-call by selecting the individual call function. |
| PHN | Used to place telephone calls through the radio by selecting the interconnect special call function. |
| 0-9 | Keypad numbers. |

For more detailed operating instructions, refer to the Operator's Manual, MM-014716-001, available online at www.pspc.harris.com.

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| M7300 Alert Tones | |
|-----------------------|--|
| NAME | DESCRIPTION |
| Call Originate | OK to talk after pressing PTT button. One short mid-pitched tone. |
| Autokey (T) | Queued call received channel assignment. |
| Call Queued (T) | Call queued for processing. One high-pitched tone. |
| System Busy (T) | System busy or unable to complete the call. Three low-pitched tones. |
| Call Denied (T) | Radio not authorized on the system or group. One low-pitched tone. |
| Carrier Control Timer | PTT pressed for too long. Five high-pitched tones and one long low-pitched tone. |
| Key Press Alert | One short tone sounds when a key has been pressed. A short low-pitched tone indicates no action was taken because the key is not active in the current mode. |

(T) = trunked mode only

| M7300 Status Messages | |
|-----------------------|---|
| QUEUED | Call Queued - Trunked mode only. Call placed in request queue. |
| SYS BUSY | System Busy - Trunked mode only. System is busy, no channels available, queue is full. |
| DENIED | Call Denied - Trunked mode only. Radio or group not authorized on selected system or group. |
| CC SCAN | Control Channel Scan mode - Trunked mode only. Control channel lost (e.g., out of range). |
| WA SCAN | Wide Area Scan mode - Trunked mode only. Radio searching for a new system. |
| TALKARND | Talkaround mode - Conventional mode only. Radio operating on conventional channel (with no repeater). |
| SYSC ON | System Scan Features On – Trunked mode only. System Scan features enabled. |
| SYSC OFF | System Scan Features Off – Trunked mode only. System Scan features disabled. |
| *RXEMER* | Receive Emergency – (Flashing on line 2) Trunked and P25 modes only. Emergency call being received. |
| *TXEMER* | Transmit Emergency – (Flashing on line 2) Trunked and P25 modes only. Emergency call transmitted from this radio. |
| VOL=31 | Volume Level – Current volume level [from OFF (silent) to 40, (loudest)] |
| UNKNOWN | Unknown ID – Trunked and P25 modes only. Individual call being received from unknown ID. |
| TX DATA | Transmit Data – Trunked mode only. Indicates the radio is transmitting a data call. |
| RX DATA | Receive Data – Trunked mode only. Indicates the radio is receiving a data call. |
| DATA ON | Trunked mode only. Indicates the radio has been toggled to the data enabled state. |
| DATA OFF | Trunked mode only. Indicates the radio is in the data disabled state. |
| EM | Emergency. Indicates an emergency has been declared by the LID that follows the display, "EM." |

| M7300 Status Messages (continued) | |
|-----------------------------------|---|
| CONV FS | Conventional Failsafe - Trunked mode only. Displayed when a failure of the EDACS system occurs. |
| T99 ON | Type 99 Decode ON - Conventional mode only. Indicates the Type 99 Decode feature is enabled. |
| T99 OFF | Type 99 Decode OFF - Conventional mode only. Indicates the Type 99 Decode feature is disabled. |
| PA ON | Public Address On - Indicates that the public address function of the radio is enabled. |
| PA OFF | Public Address Off - Momentarily [two (2) seconds] indicates that the public address function of the radio was disabled. |
| ALRM ON | External Alarm Enabled - Indicates that the external alarm function of the radio is enabled. |
| ALRM OFF | External Alarm Disabled - Momentarily [two (2) seconds] indicates that the external alarm function of the radio was disabled. |
| PVT DIS | Private Mode Disabled - Indicates that private mode is disabled or no encryption key has been programmed. |
| FRCD PVT | Forced Private Operation - Indicates that forced private operation has been pre-programmed. |
| PHONE | Phone Call - Line two 2 of the display contains the display *INDV* when line one 1 contains the message. |
| MENU | Displayed when the menu key is pressed and remains until a menu item is selected. |
| *PHONE* | Phone Call - Displayed on line two when an initiated phone call is in progress. |
| *INDV* | Individual Call – Trunked mode only. Displayed on line 2 when a call is in progress. |
| *GROUP* | Group Call – Trunked mode only. Displayed on line 1 when a group call is in progress. |

For a complete list of the M7300 Status Messages, see the M7300 Operator's Manual, MM-014716-001, available online at www.pspc.harris.com.

Conventional Mode

Sending a Call

- Once the radio is turned on, ensure that the channel is not busy by pressing the **CLR** button to briefly disable any channel decoding and unmute the receiver. If the Channel Busy Lockout feature is programmed for the selected channel, the radio will not transmit when the channel is busy.
- Press and hold the PTT button. The **TX** indicator will turn on and a short beep sounds (if programmed) indicating that communication can begin.
- Hold the microphone approximately three (3) inches from the mouth and speak in a normal voice.
- Release the PTT button when the transmission is complete and listen for a reply.

Receiving a Call

- After turning the radio on, select the desired conventional system and channel. The display indicates the current conventional system and channel names.
- The radio is now ready to receive calls.
- When the radio receives a call (and correct encoding is decoded, if programmed and enabled), it unmutes on the channel and the **BSY** indicator comes on.

Trunked Mode

Sending a Call

- Turn the radio on and set the POWER ON-OFF/VOLUME knob to the desired volume level. Select the desired system and group.
- Press and hold the PTT button. The radio will display the system and group names and perform the necessary signaling required to obtain a communication channel.
- When the working channel is assigned, **TX** and **BSY** indicators are turned ON and a short beep is sounded indicating communication can begin.

Trunked Mode (continued)

- Hold the microphone approximately three (3) inches from the mouth and speak in a normal voice.
- Release the PTT button when the transmission is complete and listen for a reply.

Receiving a Call

- After turning the radio on, the display shows the last selected or the power up (depending on programming) system and group names. If the radio is unable to obtain a control channel, line 2 shows **CC SCAN**.
- Adjust the POWER ON-OFF/VOLUME knob to the desired volume level.
- Select the desired system and group. The display indicates the current system and group names.
- The radio is now ready to receive calls.
- When the radio receives a group call, it unmutes on the assigned working channel and the **BSY** indicator comes on. Line 1 shows **GR** followed by the logical ID number (if received) of the unit sending the message, or the associated name if the ID number is found in the individual call list.

Declaring An Emergency

Check with System Administrator to ensure that the emergency function is enabled.

To send an emergency call to the selected system & group:

- Press and hold the emergency button for approximately one second.
- The radio sounds a single beep. *TXEMER* flashes on line 2 in the display until the emergency is cleared.
- Press PTT and speak into the microphone in a normal voice.
- Release PTT when the transmission is complete and listen for a reply.
- Clear by pressing and holding the **CLR** button followed by pressing the emergency button then releasing both buttons.