FEATURES:

1. THE 685 IS A CENTRAL STATION RECEIVER THAT COMPLIES WITH NFPA 72 AND IS UL AND FM LISTED. IT ALSO CONFORMS TO PART 68, FCC REGULATIONS, REGISTRATION NUMBER AC394U-62851-AL-N, and RINGER EQUIVALENCE.

2. CAN ACCOMMODATE UP TO EIGHT PHONE LINES AND PROCESS CALLS ON ALL LINES SIMULTANEOUSLY.

3. STORES UP TO 128 MESSAGES (NEWER MEMORY BOARD) 113 MESSAGES ON OLDER BOARD (16 MESSAGES PER LINE CARD AND 30 ON MEMORY BOARD) FOR SUBSEQUENT DISPLAY DURING HEAVY TRAFIC OR "TROUBLE PERIODS".

4. WHEN SIXTEEN MESSAGES HAVE BEEN STORED (BUT NOT YET DISPLAYED) ON ANY ONE PHONE LINE, THE NEXT CALL TO THAT LINE WILL RECEIVE A "HOLD" SIGNAL (NOT A "BUSY" SIGNAL) FOR UP TO 60 SECONDS.

5. ACCEPTS 3 OR 4 DIGIT ACCOUNT NUMBERS (WITH 3 DIGIT ACCOUNT NUMBERS A LEADING 0 IS ADDED) AND DISPLAYS STATUS OF 9 CHANNELS (INCLUDING TEST CHANNEL) FOR ADEMCO HIGH SPEED, DERIVED CHANNEL AND LONG RANGE RADIO.

6. DISPLAY LIGHTS ON RECEIVER FOR MESSAGES (RIGHT SIDE) INDICATE:
   1. HOLD-UP
   2. FIRE
   3. BURGLARY
   4. RESTORE
   5. LOW BATTERY
   6. OPENING
   7. CLOSING
   8. TEST

7. DISPLAY LIGHTS ON RECEIVER FOR RECEIVER STATUS (LEFT SIDE) INDICATE:
   1. VALID
   2. WAITING ←→ **MESSAGE STATUS**
   3. ACTIVE
   4. LOW BATT.
   5. AC FAILURE
   6. PRINTER FAILURE
   7. COMPUTER FAILURE
   8. TELEPHONE LINE FAULT

8.   PROGRAMMABLE ENGLISH LANGUAGE PRINTER OUTPUT.

9.   SELECTABLE 1 OR 2 RING PICKUP

10.   1 OR 2 SECOND DELAY BETWEEN PICKUP AND TRANSMISSION OF ACK SIGNAL TO PERMIT PHONE LINE SETTLING.

11.   MONITORS PHONE LINES EVERY 10 MINUTES.

12.   DISPLAYS TIME IN EITHER CIVILIAN OR MILITARY FORMATS AND DISPALYS DATE IN EITHER U.S. (MMDDYY) OR EUROPEAN (DDMMYY) FORMATS.

13.   AUTOMATICALLY GOES INTO MANUAL MODE IN CASE OF PRINTER OR AC FAILURE (IF PROGRAMMED) TO PREVENT SIGNAL LOSS.

14.   LISTEN IN CAPABILITIES. 685 WILL HOLD LINE FOR 60 SECONDS AFTER KISSOFF. (Rev. 4.72)

15.   BUILT IN BUZZER (SHUT OFF BY SILENCE ALERT BUTTON ON FRONT OF RECEIVER). WILL NOT SOUND IF A 2ND SIGNAL COMES IN WITHIN 10 SECONDS OF A SIGNAL BEING SILENCED.

16.   DRY CONTACT OUTPUT FOR REMOTE SOUNDER WITH PROGRAMMABLE START DELAY FROM 1 TO 50 SECONDS.

17.   TEST BUTTON WILL SEND TEST SIGNAL TO COMPUTER AND PRINTER AND INITIATE A LINE TEST ON ALL-INACTIVE PHONE LINES.

18.   BATTERY TEST BUTTON WILL INITIATE A 5-MINUTE LOAD TEST ON BATTERY IN WHICH A PASS OR FAIL MESSAGE WILL BE PRODUCED AT THE PRINTER AND COMPUTER.

19.   A PRINTED MESSAGE OCCURS IF AN OPERATOR PLACES RECEIVER IN OR OUT OF MANUAL MODE.

20.   BUILT IN WATCHDOG TIMER CONTINUALLY MONITORS RECEIVER OPERATION.

21.   OPTIONAL OPERATION FROM 50 HZ. AC POWER.

22.   REQUIRES 2 SUCCESSIVE IDENTICAL TRANSMISSIONS FOR KISSOFF (OR CAN ACCEPT A SINGLE ROUND WITH PARITY CHECK)

23.   THE RECEIVER IS CAPABLE OF PROCESSING SIGNALS FROM DIGITAL COMMUNICATORS IN THE FOLLOWING FORMATS:

FORMAT	SPEED	ACKNOWLEDGE OR HANDSHAKE	KISSOFF	DATA	LINE CARD
ADEMCO LOW SPEED	10 PULSES PER SEC.	1400 HZ.	1400 HZ.	1900 HZ.	-1, -2, -8
ADEMCO HIGH SPEED 8 OR 15 CHANNEL	10 CHAR. PER SEC.	1400/2300 HZ.	1400 HZ.	DTMF	-2, -8
ADEMCO EXPRESS	10 CHAR. PER SEC.	1400/2300 HZ.	1400 HZ.	DTMF	-8
ADEMCO CONTACT I.D.	10 CHAR. PER SEC.	1400/2300 HZ	1400 HZ.	DTMF	-8
RADIONICS/ SESCOA	20 PULSES PER SEC.	2300 HZ.	2300 HZ.	1800 HZ.	-8
ADEMCO LONG RANGE RADIO	10 CHAR. PER SEC.	1400/2300 HZ.	1400 HZ.	DTMF	-5
DERIVED CHANNEL	10 CHAR. PER SEC	1400/2300 HZ.	1400 HZ.	DTMF	-9, -9AT

LINE CARDS	
LINE CARD #	**DESCRIPTION**
685-1	**ADEMCO LOW SPEED LINE CARD**
685-2	**ADEMCO HIGH/LOW SPEED LINE CARD**
685-3	**SESCOA FORMAT LINE CARD**
685-4	**RADIONICS FORMAT/BFSK (BI-FREQUENCY SHIFT KEYING)**
685-5	**LONG RANGE RADIO LINE CARD**
685-8	**MULTI-FORMAT LINE CARD (MOST COMMON IN USE NOW)**
685-9	**DERIVED CHANNEL LINE CARD**
685-9AT	**DERIVED CHANNEL WITH ATU INCLUDED LINE CARD (AGENCY TERMINAL UNIT)**