

MODEL 2426

ALARM MONITORING STATION

USERS MANUAL

SOFTWARE REVISION LEVEL: 5.0

SCIENTIFIC-ATLANTA  
SECURITY & ENERGY PRODUCTS DIVISION

SOFTWARE COPYRIGHTED JULY 1983

**Scientific  
Atlanta**

SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS  
MDAS Master Menu  
COMM            Communications Monitor  
DATE            Set Date MM/DD/YY  
MONITOR        MDAS Monitor

Date: 2/21/84    Time: 6:35  
SLEEP            Suspend CRT Operations  
TIME             Set Time HH:MM

==> COMM

Scientific Atlanta Model 2426 MDAS  
Communications Monitor

Date: 2/21/84    Time: 6:25

! ! ! ! >052100013800 ! ! >052100012000 ! ! >052100010000 ! ! >0114 ! ! >05240005E01E ! ! !

MASTER MENU INSTRUCTIONS

COMMAND TYPE

COMMUNICATIONS MONITOR

COMMAND ENTRY

ENTER COMM (PRESS RETURN KEY)

FUNCTION KEY FORMAT

F4 = RETURN, F7 = PRINT SCREEN

COMMAND PURPOSE

PRESENTS A VISUAL INDICATION OF THE COMMUNICATION ACTIVITY BETWEEN THE HEADEND SCANNER AND THE CENTRAL MONITORING COMPUTER. NORMAL VIDEO CHARACTERS REPRESENT SCANNER COMMUNICATION WHILE INVERSE VIDEO REPRESENTS THE CENTRAL MONITORING COMPUTER COMMUNICATIONS LINK.

COMMAND RESULTS

A STREAM OF CHARACTERS IN NORMAL VIDEO AND INVERSE VIDEO IS PRESENTED ON THE CRT DISPLAY. TO RETURN TO THE MASTER MENU, PRESS F4.

# SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS  
MDAS Master Menu  
COMM Communications Monitor  
DATE Set Date MM/DD/YY  
MONITOR MDAS Monitor

Date: 2/20/84 Time: 10:13  
SLEEP Suspend CRT Operations  
TIME Set Time HH:MM

==> DA 2 20 84

---

## MASTER MENU INSTRUCTIONS

### COMMAND TYPE

SET DATE

### COMMAND ENTRY

ENTER DA-MM-DD-YY (PRESS RETURN) WHERE - REPRESENTS A SPACE, MM REPRESENTS THE MONTH, DD REPRESENTS THE DAY AND YY REPRESENTS THE YEAR.

### FUNCTION KEY FORMAT

F7 = PRINT SCREEN

### COMMAND PURPOSE

ALLOWS THE DATE TO BE ENTERED INTO THE SCANNER'S COMPUTER SO THAT THE DATE CAN BE AUTOMATICALLY UPDATED EACH DAY.

### COMMAND RESULTS

THE DATE APPEARS IN THE UPPER RIGHT-HAND CORNER OF THE DISPLAY SCREEN. A PREVIOUSLY ENTERED DATE WILL BE CHANGED TO THE NEWLY ENTERED DATE UPON COMMAND COMPLETION.

SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS  
MDAS Master Menu  
COMM Communications Monitor  
DATE Set Date MM/DD/YY  
MONITOR MDAS Monitor

Date: 2/20/84 Time: 10:38  
SLEEP Suspend CRT Operations  
TIME Set Time HH:MM

==> SL

---

MASTER MENU INSTRUCTIONS

COMMAND TYPE

SLEEP OR SUSPEND CRT OPERATIONS

COMMAND ENTRY

ENTER SLEEP (PRESS RETURN KEY)

FUNCTION KEY FORMAT

F7 = PRINT SCREEN

COMMAND PURPOSE

INTENDED TO DISABLE THE KEYBOARD TO DISCOURAGE UNAUTHORIZED PERSONNEL FROM USING THE SECURITY SYSTEM IN THE ABSENCE OF THE SYSTEM OPERATOR.

COMMAND RESULTS

ALL COMMAND TITLES PRESENTED ON THE CRT DISPLAY SCREEN ARE ERASED. ALL KEYS ON THE KEYBOARD ARE DISABLED EXCEPT FOR THE ESCAPE (ESC) KEY. TO RETURN TO THE MASTER MENU PRESS ESC KEY.

# SCREEN IMAGE

cientific Atlanta Model 2426 MDAS  
MDAS Master Menu  
COMM Communications Monitor  
DATE Set Date MM/DD/YY  
MONITOR MDAS Monitor

Date: 2/20/84 Time: 10:13  
SLEEP Suspend CRT Operations  
TIME Set Time HH:MM

==> TI 10 13

---

## MASTER MENU INSTRUCTIONS

### COMMAND TYPE

SET TIME

### COMMAND ENTRY

ENTER TI-HH-MM (PRESS RETURN KEY) WHERE - REPRESENTS A SPACE, HH REPRESENTS THE HOUR AND MM REPRESENTS THE MINUTES. ENTER TIME IN THE TWENTY-FOUR HOUR CLOCK FORMAT.

### FUNCTION KEY FORMAT

F7 = PRINT SCREEN

### COMMAND PURPOSE

ALLOWS THE TIME TO BE ENTERED INTO THE SCANNER'S COMPUTER SO THAT THE TIME CAN BE AUTOMATICALLY BE UPDATED EACH HOUR AND MINUTE.

### COMMAND RESULTS

THE TIME APPEARS IN THE UPPER RIGHT-HAND CORNER OF THE DISPLAY SCREEN. A PREVIOUSLY ENTERED TIME WILL BE CHANGED TO THE NEWLY ENTERED TIME UPON COMMAND COMPLETION.

# SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS  
MDAS Master Menu  
COMM Communications Monitor  
DATE Set Date MM/DD/YY  
MONITOR MDAS Monitor

Date: 2/20/84 Time: 10:14  
SLEEP Suspend CRT Operations  
TIME Set Time HH:MM

==> MO

---

## MASTER MENU INSTRUCTIONS

### COMMAND TYPE

CHANGE TO MONITOR SCREEN

### COMMAND ENTRY

ENTER MO (PRESS RETURN KEY)

### FUNCTION KEY FORMAT

F7 = PRINT SCREEN

### COMMAND PURPOSE

INITIATION OF THIS COMMAND CAUSES THE DISPLAY SCREEN TO CHANGE TO THE MONITOR MENU SCREEN WHERE ALL ALARM MONITORING AND PROCESSING IS PERFORMED.

### COMMAND RESULTS

THE MONITOR MENU SCREEN APPEARS IN PLACE OF THE MASTER MENU SCREEN.

# SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:34  
Scan=OFF CMC=ON Chan=P Alarms=0 N.R.Rept=DN Timer=30 STUs=0

==>

Address Date Time Status Alarms Pending BIN=OFF LOG=OFF AUTO=OFF

---

## MONITOR MENU INSTRUCTIONS

### DEFAULT COMMANDS

DEFAULT COMMANDS ARE DEFINED AS THOSE COMMANDS AUTOMATICALLY SET FOR CERTAIN SYSTEM PARAMETERS UPON INITIAL BOOT-UP OF THE CABLE SECURITY SOFTWARE. THE DEFAULT COMMAND VALUES INCLUDE:

SCAN = OFF, CMC = ON, NO RESPONSE REPORT = ON,  
TIMER = 30 SECONDS, BINARY STATUS = OFF, LOG  
ALARMS = OFF AND AUTO LOAD = OFF

### HANGING DEFAULT VALUES

COMMANDS WITH ON OR OFF DEFAULT VALUES MAY BE CHANGED BY ENTERING THE COMMAND AND PRESSING RETURN.

EXAMPLE: SCAN = OFF  
ENTER SCAN (PRESS RETURN KEY)  
SCAN = ON

FOR NUMERIC COMMAND CHANGES SUCH AS TIMER = 30 TO TIMER = 15 SECONDS, THE FOLLOWING PROCEDURE APPLIES:

EXAMPLE: TIMER = 30  
ENTER TIMER- 15 (PRESS RETURN KEY)  
WHERE - REPRESENTS A SPACE  
TIMER = 15

# SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:37  
Scan=DN CMC=OFF Chan=P Alarms=4 N.R.Rept=OFF Timer=10 STUs=119

==> ACK 2

Alarms Pending				BIN=OFF	LOG=OFF	AUTO=OFF
Address	Date	Time	Status			
3	2/20/84	10:37	MEDICAL			
2	2/20/84	10:37	INTRUSION			
1	2/20/84	10:37	FIRE			
2	2/20/84	10:37	ALL CLEAR			

---

## MONITOR MENU INSTRUCTIONS

### COMMAND TYPE

ACKNOWLEDGE ALARM

### COMMAND ENTRY

ENTER ACK- ADDRESS (PRESS RETURN KEY) WHERE -  
REPRESENTS A SPACE FOLLOWED BY THE TRANSPONDER  
ADDRESS

### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS,  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

### COMMAND PURPOSE

ALLOWS THE OPERATOR THE ABILITY TO ACKNOWLEDGE  
SPECIFIC ALARMS FROM AN ALARM GROUP DISPLAYED ON  
THE CRT SCREEN.

### COMMAND RESULTS

THE SPECIFIC ALARM THAT WAS ACKNOWLEDGE IS RE-  
MOVED FROM THE SCREEN AND ALARMS LISTED BELOW  
IT MOVE UP ONE LINE ON THE CRT DISPLAY. AN  
ALARM ACKNOWLEDGE STATEMENT APPEARS ON THE CRT  
DISPLAY AND THE HARD COPY PRINTER

# SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:28  
Scan=DN CMC=DN Chan=P Alarms=0 N.R.Rept=OFF Timer=30 STUs=119

==> ADD 56,100-250,67

Alarms Pending

Address Date Time Status BIN=OFF LOG=OFF AUTO=OFF

---

## MONITOR MENU INSTRUCTIONS

### COMMAND TYPE

ADD ADDRESS (ES)

### COMMAND ENTRY

ENTER ADD- ADDRESS(ES) (PRESS RETURN KEY) WHERE -  
REPRESENTS A SPACE FOLLOWED BY A SINGLE ADDRESS OR  
GROUP OF ADDRESSES

### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

### COMMAND PURPOSE

ALLOWS THE OPERATOR TO ENTER SINGULAR OR MULTIPLE  
TRANSPONDER ADDRESSES INTO THE SCANNER ADDRESS  
DATA BASE.

### COMMAND RESULTS

THE STU (STANDARD TRANSPONDER UNITS) NUMBER IS  
INCREMENTED BY THE TOTAL NUMBER OF ADDRESSES  
ADDED TO THE DATA BASE. DEPENDING UPON THE  
STATUS OF THE NEW TRANSPONDER ADDITIONS, A  
CORRESPONDING STATUS MAY APPEAR ON THE CRT DISPLAY  
SCREEN. THE OPERATOR MAY ACKNOWLEDGE THESE  
RESULTS USING FUNCTION KEY F8.

SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS  
Scan=ON CMC=DN Chan=P Alarms=0

Date: 2/20/84 Time: 10:29  
N.R.Rept=OFF Timer=30 STUs=119

==> DEL 22,100-250, 67

Alarms Pending  
Address Date Time Status BIN=OFF LOG=OFF AUTO=OFF

---

MONITOR MENU INSTRUCTIONS

COMMAND TYPE

DELETE ADDRESS(ES)

COMMAND ENTRY

ENTER DELETE- ADDRESS(ES) (PRESS RETURN KEY) WHERE -  
REPRESENTS A SPACE FOLLOWED BY A SINGLE ADDRESS OR  
A GROUP OF ADDRESSES.

FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

COMMAND PURPOSE

ALLOWS THE OPERATOR TO DELETE SINGULAR OR MULTIPLE  
TRANSPONDER ADDRESSES FROM THE SCANNER ADDRESS  
DATA BASE.

COMMAND RESULTS

THE STU (STANDARD TRANSPONDER UNITS) NUMBER IS  
DECREMENTED BY THE TOTAL NUMBER OF ADDRESS DELETED  
FROM THE DATA BASE



# SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:30  
Scan=DN CMC=DN Chan=P Alarms=0 N.R.Rept=OFF Timer=30 STUs=119

==> SC

Alarms Pending  
Address Date Time Status BIN=OFF LOG=OFF AUTO=OFF

---

## MONITOR MENU INSTRUCTIONS

### COMMAND TYPE

SCAN ON, SCAN OFF

### COMMAND ENTRY

ENTER SCAN (PRESS RETURN KEY)

### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREENT, F8 = ALARM ACKNOWLEDGE

### COMMAND PURPOSE

ALLOWS THE OPERATOR THE ABILITY TO TURN THE SCAN ON OR OFF. THE SCAN MUST BE OFF BEFORE THE OPERATOR CAN EXIT FROM THE MONITOR MENU.

### CAUTION

TOGGLING THE SCAN FROM ON TO OFF TO ON FLUSHES ALL EXISTING ALARMS HELD IN THE SCANNER ALARM QUEUE INCLUDING THE ALARMS DISPLAYED ON THE CRT SCREEN.

### COMMAND RESULTS

THE SCAN CHANGES FROM SCAN=ON TO SCAN=OFF. ALL COMMUNICATIONS BETWEEN SCANNER AND THE SUBSCRIBER-BASED TRANSPONDERS IS SUSPENDED UNTIL THE SCAN IS REACTIVATED.

## SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:30  
Scan=DN CMC=DN Chan=P Alarms=0 N.R.Rept=OFF Timer=30 STUs=119

==> SEND

Address Date Time Status Alarms Pending BIN=OFF LOG=OFF AUTO=OFF

---

### MONITOR MENU INSTRUCTIONS

#### COMMAND TYPE

SEND

#### COMMAND ENTRY

ENTER SEND- ADDRESS- NUMBER (PRESS RETURN KEY)  
WHERE - REPRESENTS A SPACE FOLLOWED BY A TRANSPONDER  
ADDRESS, A SPACE AND A WHOLE NUMBER.

#### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

#### COMMAND PURPOSE

ALLOWS THE OPERATOR TO SEND TO A SPECIFIC COMMAND  
TO THE TRANSPONDER DESIGNATED IN THE ENTRY FORMAT  
ABOVE. THE COMMAND NUMBER IS TRANSLATED BY THE  
SCANNER INTO A BINARY WORD FOR INTERPRETATION  
BY THE TRANSPONDER'S MICROPROCESSOR FOR PERFORM-  
ING A SPECIFIC ACTION.

A LISTING OF SEND COMMANDS WILL BE PUBLISHED IN  
FUTURE REVISIONS TO THIS OPERATOR'S MANUAL.

#### COMMAND RESULTS

# SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:31  
Scan=DN CMC=DN Chan=P Alarms=0 N.R.Rept=OFF Timer=30 STUs=119

==> ST 2

Address	Date	Time	Status	Alarms Pending	BIN=OFF	LOG=OFF	AUTO=OFF
2	**	STATUS	**	ALL CLEAR			

## MONITOR MENU INSTRUCTIONS

### COMMAND TYPE

STATUS

### COMMAND ENTRY

ENTER STATUS- ADDRESS (PRESS RETURN KEY) WHERE - REPRESENTS A SPACE FOLLOWED BY A TRANSPONDER ADDRESS.

### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

### COMMAND PURPOSE

ALLOWS THE OPERATOR THE ABILITY TO REQUEST A GENERAL STATUS CONDITION (AS OPPOSED TO READ COMMAND) OF A SPECIFIC TRANSPONDER. POSSIBLE RESPONSES INCLUDE:

**ALL CLEAR** - INDICATES THAT SPECIFIC TRANSPONDER IS PROPERLY COMMUNICATING WITH THE HEADEND SCANNER AND NO PENDING OR ACTIVE ALARMS EXIST AT THE TRANSPONDER ALARM INPUTS.

**NO RESPONSE** - INDICATES THAT SPECIFIC TRANSPONDER IS NOT COMMUNICATING WITH THE HEADEND SCANNER.

**ALARM REPORT** - INDICATES THAT TRANSPONDER HAS AN ACTIVE, UNACKNOWLEDGED ALARM OR ALARMS

### COMMAND RESULTS

A STATUS REQUEST ON A SPECIFIC TRANSPONDER WILL REPORT EITHER A NO RESPONSE, AN ALARM OR AN ALL CLEAR TO THE CRT DISPLAY SCREEN AND PRINTER.

## SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:33  
Scan=ON CMC=ON Chan=P Alarms=0 N.R.Rept=OFF Timer=30 STUs=119

\*\* WARNING \*\* SAVE DESTROYS CURRENT BACKUP DATABASE. PROCEED? (Y/N)  
Alarms Pending

Address Date Time Status BIN=OFF LOG=OFF AUTO=OFF  
2/20/84 10:34 >> CHECKSUM VERIFIED - DATABASE SAVED <<

---

### MONITOR MENU INSTRUCTIONS

#### COMMAND TYPE

SAVE

#### COMMAND ENTRY

SAVE (PRESS RETURN KEY). NEXT SELECT YES OR NO (Y OR N) AND PRESS THE RETURN KEY.

#### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

#### COMMAND PURPOSE

ALLOWS THE OPERATOR THE ABILITY TO SAVE THE NEW NUMBER OF ENABLED TRANSPONDERS INTO THE CONTINUOUS MEMORY RAM LOCATED IN THE SCANNER. THIS FEATURE ASSURES THE OPERATOR THAT THERE WILL BE DATA BASE INTEGRITY IN THE EVENT OF LOSS POWER OR VOLTAGE TRANSIENTS.

#### COMMAND RESULTS

THE OPERATOR RECEIVES A WARNING NOTIFICATION THAT THE CURRENT DATA BASE WILL BE REPLACED (DESTROYED) BY THE NEW DATA BASE ENTERED. A YES OR NO SELECTION (Y OR N) IS REQUIRED TO SAVE THE NEW DATA BASE

NOTIFICATION TO THE OPERATOR OF A DATA BASE SAVE APPEARS DIRECTLY BELOW THE ALARMS PENDING HEADING.

## SCREEN IMAGE

scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:34  
Scan=DN CMC=DN Chan=F Alarms=0 N.R.Rept=OFF Timer=30 STUs=119

==> HELP

Alarms Pending  
Address Date Time Status BIN=OFF LOG=OFF AUTO=OFF

### MDAS Command Menu

ACK	Acknowledge Alarm	RESET	Reset Transponder
ADD	STU Address Enable	RESPONSE	Display NO Responses
DELETE	STU Address Disable	CMC	CMC Communications
RETURN	Return to Master Menu	DIAL	Dialer Trigger
SCAN	STU Scanner	EXAMINE	Examine/Modify AER Map
SEND	Send Transponder Cmd	LIST	List Enabled Addresses
STATUS	Demand STU Status	POWER	Adjust Power Level
READ	Read Status Reg	TEST	Toggle Test Bit
SAVE	Save Current D-base	LOAD	Load Backup D-base
HELP	This Menu		

---

### MONITOR MENU INSTRUCTIONS

#### COMMAND TYPE

HELP

#### COMMAND ENTRY

ENTER HELP (PRESS RETURN KEY)

#### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

#### COMMAND PURPOSE

TO PROVIDE THE OPERATOR WITH A LIST OF ALL  
MONITOR MENU COMMANDS AND CORRESPONDING  
DESCRIPTIONS.

#### COMMAND RESULTS

THE OPERATOR OBTAINS A CRT DISPLAY LISTING OF  
ALL MONITOR MENU COMMANDS DIRECTLY BELOW THE  
ALARMS PENDING HEADING. IF ALARM REPORTS OCCUPY  
THIS SPACE, THE OPERATOR MUST FIRST ACKNOWLEDGE  
THESE ALARMS TO ALLOW ROOM FOR THE HELP MENU.

## SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:43  
Scan=DN CMC=OFF Chan=P Alarms=0 N.R.Rept=OFF Timer=10 STUs=119

==> RESET 14

Address Date Time Status Alarms Pending BIN=OFF LOG=OFF AUTO=OFF

---

### MONITOR MENU INSTRUCTIONS

#### COMMAND TYPE

RESET TRANSPONDER

#### COMMAND ENTRY

ENTER RESET- ADDRESS (PRESS RETURN KEY). WHERE - REPRESENTS A SPACE FOLLOWED BY THE TRANSPONDER ADDRESS.

#### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

#### COMMAND PURPOSE

THIS COMMAND CAUSES A SPECIFIC TRANSPONDER'S MICROPROCESSOR TO ENTER A SOFTWARE ROUTINE WHERE IT WAITS FOR A RESET FROM ITS ON-BOARD "WATCH DOG" CIRCUIT.

#### COMMAND RESULTS

A TRANSPONDER RESET IS PERFORMED.

## SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:37  
Scan=DN CMC=DN Chan=P Alarms=0 N.R.Rept=OFF Timer=30 STUs=119

==> RESPONSE

Address Date Time Status Alarms Pending BIN=OFF LOG=OFF AUTO=OFF

---

### MONITOR MENU INSTRUCTIONS

#### COMMAND TYPE

RESPONSE

#### COMMAND ENTRY

ENTER RESPONSE (PRESS RETURN KEY)

#### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

#### COMMAND PURPOSE

ALLOWS THE OPERATOR TO TOGGLE THE NO RESPONSE REPORT FROM OFF TO ON AND VICE VERSA. AN ACTIVE NO RESPONSE REPORT INDICATES THAT THE SCANNER IS UNABLE TO COMMUNICATE WITH A SUBSCRIBER-BASED TRANSPONDER. WHEN SETTING THE NO RESPONSE REPORT=OFF USING THE COMMAND ENTRY SEQUENCE ABOVE, ALL NO RESPONSE ALARMS ARE NOT REPORTED TO THE OPERATOR. NO RESPONSE ALARMS ARE HOWEVER, HELD IN THE SCANNER QUEUE AND MAY BE REPORTED BY SETTING THE NO RESPONSE REPORT = ON.

#### COMMAND RESULTS

AFTER ENTERING THE RESPONSE COMMAND, THE OPERATOR WILL NOTE THE NO RESPONSE REPORT HEADING TOGGLE EITHER ON OR OFF. WHEN TOGGING ON, THE OPERATOR WILL RECEIVE A LISTING OF NO RESPONSE ALARMS AT THE CRT DISPLAY AND LINE PRINTER.

DEACTIVATION OF THE NO RESPONSE REPORT RESULTS IN A STATEMENT OF THIS ACTIVITY INCLUDING DATE AND TIME OF DEACTIVATION. THIS MESSAGE WILL ALSO APPEAR ON THE PRINTOUT.

# SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:32  
Scan=DN CMC=DN Chan=P Alarms=0 N.R.Rept=OFF Timer=30 STUs=119

==> READ 2

Alarms Pending  
Address Date Time Status BIN=OFF LOG=OFF AUTO=OFF  
2 \*\* READ \*\* RFPWR: 2 RFC: P ALMCHAN: 0 DIALER: DN

---

## MONITOR MENU INSTRUCTIONS

### COMMAND TYPE

READ

### COMMAND ENTRY

ENTER READ- ADDRESS (PRESS RETURN KEY) WHERE -  
REPRESENTS A SPACE FOLLOWED BY THE TRANSPONDER  
ADDRESS.

### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

### COMMAND PURPOSE

ALLOWS THE OPERATOR THE ABILITY TO DETERMINE  
THE FOLLOWING SPECIFIC STATUS CONDITIONS FOR  
THAT TRANSPONDER:

RFPWR - STATES A NUMBER REPRESENTING THE  
RELATIVE REVERSE RF POWER LEVEL FROM THE  
TRANSPONDER. A POWER LEVEL OF 16 INDICATES  
MAXIMUM ATTENUATION (MINIMUM POWER) FOR THE  
REVERSE RF SIGNAL. A POWER LEVEL OF 1 INDICATES  
MINIMUM ATTENUATION (MAXIMUM POWER) FOR THE  
REVERSE RF SIGNAL.

RFC - STATES THAT THE SCANNER IS COMMUNICATING  
ON EITHER THE POLLING CHANNEL (P) OR THE INTERRUPT  
(I) REVERSE CHANNEL. THE POLLING CHANNEL IS  
STANDARD IN THE MDAS SYSTEM WITH THE INTERRUPT  
CHANNEL AS AN OPTIONAL DEVICE.

# SCREEN IMAGE

= READ 2

PAGE -2-

---

## MONITOR MENU INSTRUCTIONS

### COMMAND PURPOSE CONTINUED:

ALMCHAN - STATES A NUMBER FROM 1 TO 4  
CORRESPONDING TO THE ZONE OF THE ALARM INPUT  
EXPANDER/TRANSPONDER COMBINATION.

DIALER - INDICATES IF THE DIALER INTERFACE  
PORT HAS BEEN ACTIVATED (ON) OR IS NON-  
ACTIVATED (OFF). THE DIALER INTERFACE ACTIVATES  
45 SECONDS SUBSEQUENT TO A NON-ACKNOWLEDGEMENT  
OF AN ALARM BY THE CENTRAL STATION OPERATOR.

### COMMAND RESULTS

ACTIVATION OF THE READ COMMAND RESULTS IN A  
STATUS MESSAGE ON THE CRT DISPLAY SCREEN  
DIRECTLY BELOW THE ALARMS PENDING HEADING.

## SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:37  
Scan=DN CMC=DN Chan=P Alarms=0 N.R.Rept=OFF Timer=10 STUs=119

==> RESPONSE 10

Address Date Time Status Alarms Pending BIN=OFF LOG=OFF AUTO=OFF

---

### MONITOR MENU INSTRUCTIONS

#### COMMAND TYPE

#### TIMED RESPONSE

#### COMMAND ENTRY

ENTER RESPONSE- NUMBER (PRESS RETURN KEY) WHERE -  
REPRESENTS A SPACE FOLLOWED BY A NUMBER 0 TO 255

#### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

#### COMMAND PURPOSE

WHEN THE NO RESPONSE REPORT=ON THE OPERATOR  
MAY SET THE NO RESPONSE TIMER FROM 0 TO 255  
SECONDS. THIS GLOBAL TIMER CAUSES ALL ALARMS  
REPORTING TO BE DELAYED UNTIL THE TIME-OUT  
EXPIRES FOR EACH OCCURENCE. AFTER THE TIME-OUT  
OCCURS, THE ALARM IS DISPLAYED ON THE CRT SCREEN  
AND THE PRINTER.

THE TIMER FEATURE WAS INCORPORATED TO COMPENSATE  
FOR INSTANTANEOUS CHANGES IN THE CATV CABLE SYSTEM  
NOT RELATED TO A REAL ALARM. THIS FEATURE IS  
ESPECIALLY USEFUL WHEN MAINTENANCE IS REQUIRED  
ON THE CATV CABLE AND THE OPERATOR MAY ADJUST  
THE TIMER FOR TEMPORARY CABLE DISCONNECTS AS  
REQUIRED.

#### NOTE

THE NO RESPONSE TIME DELAYS ONLY NO RESPONSE  
ALARMS AND ALLOWS ALL OTHER TYPES OF ALARMS TO  
IMMEDIATELY REPORT TO THE CRT DISPLAY AND PRINTER  
(I.E., MEDICAL, FIRE, PANIC)

SCREEN IMAGE

== RESPONSE 10

PAGE -2-

---

MONITOR MENU INSTRUCTIONS

COMMAND RESULTS

AN INITIAL NO RESPONSE ALARM CAUSES THE NO RESPONSE REPORT = ON TO FLASH THE TOTAL NUMBER OF NO RESPONSE ALARMS. IF THE NO REPOSENSE ALARM EXCEEDS THE TIME-OUT PERIOD, THE ALARM WILL BE REPORTED ON THE CRT DISPLAY AND PRINTER. AT THAT TIME THE FLASHING NUMBER IS DECREMENTED BY THE TOTAL NO RESPONSE ALARMS REPORTED TO THE OPERATOR.

## SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:41  
Scan=ON CMC=OFF Chan=P Alarms=0 N.R.Rept=OFF Timer=10 STUs=119

==> CMC

Address Date Time Status Alarms Pending BIN=OFF LOG=OFF AUTO=OFF

---

### MONITOR MENU INSTRUCTIONS

#### COMMAND TYPE

CMC

#### COMMAND ENTRY

ENTER CMC (PRESS RETURN KEY)

#### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

#### COMMAND PURPOSE

THIS COMMAND ALLOWS THE OPERATOR THE ABILITY TO TOGGLE THE CENTRAL MONITORING COMPUTER ON OR OFF. THE DEFAULT SETTING IS CMC=ON.

WITH THE COMMAND SET FOR CMC=ON, THE CENTRAL MONITORING COMPUTER IS LINKED TO THE HEADEND SCANNER AND AUTOMATICALLY ACKNOWLEDGES ALARMS.

FOR OPERATION OF THE MDAS SYSTEM ONLY, SET THE CMC=OFF

#### COMMAND RESULTS

INITIATION OF THIS COMMAND CHANGES THE CMC=ON TO CMC=OFF AND VICE VERSA.

## SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:39  
Scan=DN CMC=OFF Chan=P Alarms=0 N.R.Rept=OFF Timer=10 STUs=119

==> DIAL 3

Alarms Pending  
Address Date Time Status BIN=OFF LOG=OFF AUTO=OFF  
3 \*\* READ \*\* RFPWR: 1 RFC: P ALMCHAN: 0 DIALER: ON

---

### MONITOR MENU INSTRUCTIONS

#### COMMAND TYPE

DIAL

#### COMMAND ENTRY

ENTER DIAL- ADDRESS (PRESS RETURN KEY) WHERE -  
REPRESENTS A SPACE FOLLOWED BY THE TRANSPONDER  
ADDRESS.

#### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

#### COMMAND PURPOSE

THE DIAL COMMAND ALLOWS THE OPERATOR TO ACTIVATE  
THE TRANSPONDER'S DIALER INTERFACE CIRCUIT  
FROM THE SYSTEM KEYBOARD. WHEN THE TRANSPONDER  
IS CONNECTED TO AN EXTERNAL DIALER, THE DIALER  
MAY BE ACTIVATED TO REPORT BACK TO A STAND-ALONE  
DIGITAL TELEPHONE RECEIVER. THEREFORE, THIS  
FEATURE ALLOWS FOR A COMPLETE TEST OF THE  
TELEPHONE ALARM REPORTING PATH VIA THE REMOTE  
CENTRAL STATION KEYBOARD AND SUBSCRIBER-BASED  
TRANSPONDER.

#### COMMAND RESULTS

INITIATION OF THIS COMMAND ACTIVATES AN EXTERNAL  
TELEPHONE DIALER CONNECTED TO THE TRANSPONDER'S  
DIALER INTERFACE PORT.

THE OPERATOR MAY VERIFY COMMAND ACTIVATION VIA  
THE READ COMMAND BY OBSERVING THE LABELED DIALER.

## SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:39  
Scan=DN CMC=OFF Chan=P Alarms=0 N.R.Rept=OFF Timer=10 STUs=119

=> EX 24

Address Date Time Status Alarms Pending BIN=OFF LOG=OFF AUTO=OFF

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:39  
Scan=DN CMC=OFF Chan=P Alarms=0 N.R.Rept=OFF Timer=10 STUs=119

24 OFF

Address Date Time Status Alarms Pending BIN=OFF LOG=OFF AUTO=OFF

---

### MONITOR MENU INSTRUCTIONS

#### COMMAND TYPE

#### EXAMINE ADDRESS

#### COMMAND ENTRY

ENTER EX- ADDRESS (PRESS RETURN KEY) WHERE - REPRESENTS A SPACE FOLLOWED BY A TRANSPONDER ADDRESS.

#### FUNCTION KEY FORMAT

F1 = ADDRESS ON/OFF, F2 = NEXT ADDRESS,  
F3 = PREVIOUS ADDRESS, F4 = RETURN

#### COMMAND PURPOSE

SAME AS EXAMINE COMMAND BUT IT PROVIDES OPERATOR WITH AN IMMEDIATE REPORT FOR A SPECIFIC TRANSPONDER ADDRESS. THE ON OR OFF STATUS INDICATES IF THAT TRANSPONDER ADDRESS IS ENABLED OR DISABLED IN THE DATA BASE.

#### COMMAND RESULTS

THE TRANSPONDER ADDRESS WILL BE FOLLOWED BY AN ON OR OFF LABEL. TO INCREMENT OR DECREMENT ADDRESSES, PRESS F2 OR F3 RESPECTIVELY. TO RETURN TO THE MONITOR MENU PRESS F4.

# SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:42  
Scan=ON CMC=OFF Chan=P Alarms=0 N.R.Rept=OFF Timer=10 STUs=119

==> LI

Address Date Time Status Alarms Pending BIN=ON LOG=OFF AUTO=OFF

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190

---

## MONITOR MENU INSTRUCTIONS

### COMMAND TYPE

LIST

### COMMAND ENTRY

ENTER LI (PRESS RETURN KEY)

### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

### COMMAND PURPOSE

ALLOWS OPERATOR THE ABILITY TO OBTAIN A HARD COPY LISTING OF ALL THE ENABLED TRANSPONDER ADDRESSES IN THE DATA BASE.

THE ALARM RECEIVING AND PROCESSING FUNCTIONS ARE STILL OPERATIVE DURING THIS LISTING.

### COMMAND RESULTS

SEE ABOVE SCREEN IMAGE FOR EXAMPLE OF LISTING.

## SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:43  
Scan=ON CMC=OFF Chan=P Alarms=1 N.R.Rept=OFF Timer=10 STUs=119

==> PD 5

Address Date Time Status Alarms Pending BIN=OFF LOG=OFF AUTO=OFF  
5 2/20/84 10:43 RF OK

---

### MONITOR MENU INSTRUCTIONS

#### COMMAND TYPE

ADJUST RF POWER LEVEL

#### COMMAND ENTRY

ENTER P0- ADDRESS (PRESS RETURN KEY) WHERE -  
REPRESENTS A SPACE FOLLOWED BY THE TRANSPONDER  
ADDRESS.

#### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

#### COMMAND PURPOSE

ALLOWS THE OPERATOR THE ABILITY TO PERFORM MANUAL  
RF POWER LEVEL ADJUSTMENTS TO SUBSCRIBER BASED  
TRANSPONDERS.

#### COMMAND RESULTS

THE HEADEND SCANNER MEASURES THE RF POWER LEVEL  
FROM THE TRANSPONDER. NEXT IT INCREMENTS OR  
DECREMENTS THE TRANSPONDER'S RF OUTPUT POWER TO  
OBTAIN AN ACCEPTABLE SIGNAL TO NOISE RATIO AT THE  
SCANNER.

THE OPERATOR RECEIVES ONE OF THREE RESPONSES:

1. RF OK
2. RF LOW
3. RF HIGH

### CAUTION

A LOW OR HIGH RF LEVEL SHOULD NOT BE IMMEDIATELY  
INTERPRETED AS AN ALARM. A RF LOW WHICH BECOMES  
A NO RESPONSE ALARM IS HOWEVER CAUSE FOR CONCERN  
AND BEARS INVESTIGATION.

## SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:44  
Scan=DN CMC=OFF Chan=F Alarms=0 N.R.Rept=OFF Timer=10 STUs=119

==> TEST 4

Address Date Time Status Alarms Pending BIN=OFF LOG=OFF AUTO=OFF

---

### MONITOR MENU INSTRUCTIONS

#### COMMAND TYPE

TEST

#### COMMAND ENTRY

ENTER TEST- ADDRESS (PRESS RETURN KEY) WHERE -  
REPRESENTS A SPACE FOLLOWED BY A TRANSPONDER  
ADDRESS.

#### FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

#### COMMAND PURPOSE

ALLOWS THE OPERATOR TO ACTIVATE THE TEST OUTPUT  
ON A SUBSCRIBER-BASED TRANSPONDER. DEPENDING  
UPON THE TRANSPONDER'S OUTPUT CONFIGURATION, A  
TWO SECOND VOLTAGE OUTPUT OR VOLTAGE WITHDRAWAL  
OF 5 VDC WILL OCCUR USING THE TEST COMMAND.

A CUSTOMER DEVISED RELAY CIRCUIT MAY BE USED IN  
CONJUNCTION WITH THE TEST OUTPUT TO CONTROL  
EQUIPMENT.

#### COMMAND RESULTS

THE TRANSPONDER OUTPUTS OR WITHDRAWS A VOLTAGE  
AT ITS TEST OUTPUT.

SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 10:44  
Scan=DN CMC=OFF Chan=F Alarms=0 N.R.Rept=OFF Timer=10 STUs=119

==> LOAD

Address Date Time Status Alarms Pending BIN=OFF LOG=OFF AUTO=OFF  
2/20/84 10:44 >> CHECKSUM VERIFIED - DATABASE LOADED <<

---

MONITOR MENU INSTRUCTIONS

COMMAND TYPE

LOAD

COMMAND ENTRY

ENTER LOAD (PRESS RETURN KEY)

FUNCTION KEY FORMAT

F5 = BINARY STATUS, F6 = LOG ALARMS  
F7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

COMMAND PURPOSE

ALLOWS THE OPERATOR TO LOAD THE ADDRESS DATA  
BASE CURRENTLY RESIDING IN THE SCANNER'S  
CONTINUOUS MEMORY RAM

COMMAND RESULTS

THE OPERATOR RECEIVES AN INDICATION THAT THE  
DATA BASE HAS BEEN LOADED INTO RAM (SEE ABOVE  
EXAMPLE)

SCREEN IMAGE

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 11:39  
Scan=ON CMC=OFF Chan=P Alarms=6 N.R.Rept=OFF Timer=30 STUs=119

==>

Alarms Pending BIN=OFF LOG=OFF AUTO=OFF

Address	Date	Time	Status
2	2/20/84	11:39	BATTERY LOW
2	2/20/84	11:39	MEDICAL/BATTERY LOW
2	2/20/84	11:39	INTRUSION/MEDICAL/BATTERY LOW
2	2/20/84	11:39	FIRE/INTRUSION/MEDICAL/BATTERY LOW
2	2/20/84	11:39	PANIC/FIRE/INTRUSION/MEDICAL/BATTERY LOW
2	2/20/84	11:39	PANIC/FIRE/INTRUSION/MEDICAL/BATTERY LOW/AUX #1

Scientific Atlanta Model 2426 MDAS Date: 2/20/84 Time: 11:42  
Scan=ON CMC=OFF Chan=P Alarms=6 N.R.Rept=OFF Timer=30 STUs=119

==>

Alarms Pending BIN=ON LOG=OFF AUTO=OFF

Address	Date	Time	Status
2	2/20/84	11:41	0000001000000000
2	2/20/84	11:41	0000011000000000
2	2/20/84	11:42	0000111000000000
2	2/20/84	11:42	0010111000000000
2	2/20/84	11:42	0110111000000000
2	2/20/84	11:42	0110111000000010

MASTER MENU INSTRUCTIONS

COMMAND TYPE

ACTIVATE BINARY STATUS

COMMAND ENTRY

PRESS F5

FUNCTION KEY FORMAT

F5 = BINARY STATUS

COMMAND PURPOSE

ALLOWS OPERATOR TO RECEIVE THE BINARY EQUIVALENT OF THE VARIOUS ALARM TYPES PER THE FOLLOWING:

TEST	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
BATTERY LOW	0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
MEDICAL	0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0
INTRUSION	0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
PANIC	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
TAMPER	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
NO RESPONSE	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

SCANNER ERROR CODES

E004: Scanner has stopped scanning the subscriber data base due to an overflow in the alarm queue.

E005: The power-adjust circuit is not functioning properly.

E011: No response voting block Queue overflow.