MODEL 2426

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ALARM MONITORING STATION

USERS MANUAL

SOFTWARE REVISION LEVEL: 5.0

SCIENTIFIC-ATLANTA SECURITY & ENERGY PRODUCTS DIVISION

SOFTWARE COPYRIGHTED JULY 1983

Scientific Atlanta

Scientific A	tlanta Model 2426 MDAS	Date:	2/21/84	Time:	6:35
MDAS Master COMM DATE MONITOR	Menu Communications Monitor Set Date MM/DD/YY MDAS Monitor	SLEEP Time	Suspe Set T	nd CRT Op ime HH:M	erations M

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Scientific Atlanta Model Communications Monitor	24 26	MDAS	Date:	2/21/84	Time:	6:25
E:E:E:>052100013800!>05210	001200	0!)>05210001	0000!*!	>0114! >0524	0005E01	Eiti
0	MASTE	R MENU INST				
COMMAND TYPE	Commu	NICATIONS MO	ONITOR			
COMMAND ENTRY	ENTER	COMM (PRESS	S RETURN	KEY)		
FUNCTION KEY FORMAT	F4 = 1	return, F7 =	= PRINT	SCREEN		
COMMAND PURPOSE	PRESEI ACTIV CENTRA CHARA INVER COMPU	NTS A VISUAL ITY BETWEEN AL MONITORIN CTERS REPRES SE VIDEO REF FER COMMUNIC	L INDICA THE HEA NG COMPU SENT SCA PRESENTS CATIONS	TION OF THE DEND SCANNE TER. NORMA NNER COMMUN THE CENTRA LINK.	COMMUN R AND T L VIDEO ICATION L MONIT	ICATION HE WHILE ORING
COMMAND RESULTS	A STRI INVERS TO RET	EAM OF CHARA SE VIDEO IS FURN TO THE	ACTERS I PRESENT MASTER	N NORMAL VI ED ON THE C MENU, PRESS	DEO AND RT DISP F4.	LAY.

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Lientific Atlanta Model 2426 MDASDate: 2/20/84Time: 10:13MDAS Master MenuCOMMCommunications MonitorSLEEFSuspend CRT OperationsDATESet DateMM/DD/YYTIMESet TimeHH:MMMONITORMDAS Monitor**

==> 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.

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ientific At	lanta Model 2426 MDAS	Date:	2/20/84 Time: 10:38
MDAS Master COMM DATE MONITOR	Menu Communications Monitor Set Date MM/DD/YY MDAS Monitor	SLEEP Time	Suspend CRT Operations 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 <u>ESCAPE</u> (ESC) KEY. TO RETURN TO THE MASTER MENU PRESS ESC KEY.

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cientific A	tlanta Model 2426 MDAS	Date:	2/20/84 Time: 10:13
MDAS Master COMM	Menu Communications Monitor	SLEEF	Suspend CRT Operations
DATE MONITOR	Set Date MM/DD/YY MDAS Monitor	TIME	Set Time HH:MM

==> TI 10 13

MASTER MENU INSTRUCTIONS

COMMAND TYPE SET TIME

<u>COMMAND ENTRY</u> 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

<u>COMMAND PURPOSE</u> ALLOWS THE TIME TO BE ENTERED INTO THE SCANNER'S COMPUTER SO THAT THE TIME CAN BE AUTOMATICALLY BE UPDATED EACH HOUR AND MINUTE.

<u>COMMAND RESULTS</u> 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.

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ientific At	lanta Model 2426 MDAS	Date:	2/20/84 Time: 10:14
MDAS Master	Menu .		
COMM	Communications Monitor	SLEEP	Suspend CRT Operations
DATE	Set Date MM/DD/YY	TIME	Set Time HH:MM
MONITOR	MDAS Monitor		

==> MD	
	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.

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Cientif: Scan=DFF	ic Atlan CMC=DN	ta Modi Chai	el 2426 Mi n=P Alari	DAS ns=0	Date: N.R.Rep	2/20/8 t=DN	4 Tim Timer=3	n e : 30	10:34 STUS=0
==>			Δ 1.	ATAS PAD	dino				
Address	Date	Time	Status			BIN=OF	F LOG=C	DFF	AUTO=OFF
			MONITOR M	MENU INST	RUCTIONS	<u>.</u>			
DEFAULT	<u>COMMANDS</u>		DEFAULT C AUTOMATIC UPON INIT WARE. TH	COMMANDS Cally Set Fial Boot He Defaul	ARE DEFI FOR CEF -UP OF 1 T COMMAN	INED AS RTAIN SY THE CABL ND VALUE	THOSE CO STEM PAR E SECUR S INCLUI	DMMA RAME ITY DE:	NDS TERS SOFT-
. -			SCAN = OF TIMER = 3 ALARMS =	F, CMC = 50 SECONI OFF and	ON, NO S, BINAF Auto Loa	RESPONS Ry Statu Ad = Off	SE REPORT IS = OFF,	T = , LO	ON, G
HANGING	DEFAULT	VALUES	_						
·			COMMANDS CHANGED E RETURN.	WITH ON BY ENTERI	or OFF i ng the c	DEFAULT COMMAND	VALUES M AND PRES	MAY SSIN	BE G
			EXAMPLE:	SCAN = enter S SCAN =	OFF CAN (pre ON	ESS RETU	IRN KEY)		•
			FOR NUMER TO TIMER APPLIES:	aic comma = 15 SEC	ND CHANG ONDS, TH	ES SUCH Ie Follo	I AS TIME WING PRO	ER = DCED	30 ure
			EXAMPLE:	TIMER = enter T	30 IMER- 15	G (PRESS	RETURN	KEY)

WHERE - REPRESENTS A SPACE

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TIMER = 15

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Scan=DN CMC=DFF Char	el 2426 MDAS Date: 2/20/84 Time: 10:37 n=P Alarms=4 N.R.Rept=OFF Timer=10 STUs=119					
==> ACK 2						
Address Date Time 3 2/20/84 10:37 2 2/20/84 10:37 1 2/20/84 10:37 2 2/20/84 10:37 2 2/20/84 10:37	Bin=DFF LDG=DFF AUTD=DFF MEDICAL INTRUSION INTRUSION FIRE 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					
UNCTION 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					

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Scientific Atlanta M Scan=DN CMC=DN C	iodel 2426 MDAS Chan=P Alarms=0 N	Date: 2/20/E I.R.Rept=DFF	34 Time: Timer=30	10:28 STUs=115		
==> ADD 56,100-250,67	·	:				
Address Date Time	Alarms Pendi Status	ng BIN=DF	F LOG=DFF	AUTD=DFF		
	MONITOR MENU INSTR	UCTIONS				
COMMAND TYPE	ADD address (es)			•		
COMMAND ENTRY	enter ADD- address represents a space group of addresses	(ES) (PRESS RI FOLLOWED BY	ETURN KEY) A SINGLE AD	WHERE - Dress or		
FUNCTION KEY FORMAT	F5 = BINARY STATUS F7 = print screen,	, $F6 = log and F8 = alarm$	LARMS ACKNOWLEDG	E		
COMMAND PURPOSE	ALLOWS THE OPERATOR TRANSPONDER ADDRES DATA BASE.	ALLOWS THE OPERATOR TO ENTER SINGULAR OR MULTIPLE TRANSPONDER ADDRESSES INTO THE SCANNER ADDRESS DATA BASE.				
COMMAND RESULTS	THE STU (STANDARD INCREMENTED BY THE ADDED TO THE DATA I STATUS OF THE NEW CORRESPONDING STATE SCREEN. THE OPERAT RESULTS USING FUNCT	FRANSPONDER UN TOTAL NUMBER BASE. DEPEND FRANSPONDER AI US MAY APPEAR FOR MAY ACKNOW TION KEY F8.	NITS) NUMBE OF ADDRESS ING UPON TH DDITIONS, A ON THE CRT WLEDGE THES	R IS ES E - DISPL AÝ E		

Scientific Atlanta Mode Scan=DN CMC=DN Chan	1 2426 MDAS Date: 2/20/84 Time: 10:29 =P Alarms=0 N.R.Rept=DFF Timer=30 STUs=119						
==> DEL 22,100-250, 67							
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						

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5	scientifi :an≡DN	c Atlan CMC=DN	ita Mod I Cha	el 2426 MDAS n=F Alarms=0	Date: N.R.Rept	2/20/84 =DFF 1	Time: Timer=30	10:29 STU5=119	
8.8	RETURN	1		Alarms Pe	nding				
f	ddr ess	Date	Time	Status		BIN=OFF	LOG=DFF	AUTO=DFF	
				MONITOR MENU IN	STRUCTIONS				
	COMMAND	TYPE		RETURN	TURS SC,	AN OFF			
	<u>COMMAND</u>	ENTRY		enter SCAN (pre RETURN (press r	SS RETURN ETURN KEY)	KEY). N	EXT ENTER		
	FUNCTION	KEY FO	DRMAT	F5 = binary sta F7 = print scre	TUS, F6 = 1 en, F8 = 1	LOG ALAR	MS KNOWLEDGE		
\bigcirc	COMMAND PURPOSE			RETURNS THE OPERATOR TO THE MASTER MENU					
	COMMAND	RESULTS	ک	THE MASTER MENU INITIATION OF V	SCREEN WH	ICH APPE TEM MAIN	ARS ALLOW TENANCE C	S FOR Ommands.	

Scientific Atlanta Mo Scan=DN CMC=DN Ch	del 2426 MDAS Date: 2/20/84 Time: 10:30 an=F Alarms=0 N.R.Rept=DFF Timer=30 STUs=119				
==> SC	Alaras Pendino				
Address Date Time	Status BIN=DFF LOG=DFF AUTO=DFF				
	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-				

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COMMUNICATIONS BETWEEN SCANNER AND THE SUBSCRIBER-BASED TRANSPONDERS IS SUSPENDED UNTIL THE SCAN IS REACTIVATED.

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ớcientifi Scan≡DN	ic Atlan CMC=DN	ta Mod Cha	del 2426 MDAS An=P Alarms=0	Date: N.R.Rep	2/20/84 t=DFF 1	Time: [imer=30	10:30 STUs=119
==> SEND							
Address	Date	Time	Alarms P Status	ending	BIN=DFF	LOG=OFF	AUTO=DFF
			MONITOR MENU I	NSTRUCTION	<u>s_</u>		
COMMAND	TYPE		SEND				
COMMAND	ENTRY		enter SEND- ad where - repres address, a spa	DRESS- NUMI Ents a space Ce and a wi	BER (PRES CE FOLLOW HOLE NUMB	S RETURN ED BY A T ER.	KEY) RANSPONDER
FUNCTIO	N KEY FO	ORMAT	F5 = binary st. F7 = print scr	atus, F6 = een, F8 =	LOG ALAR Alarm Ac	MS KNOWLEDGE	
COMMAND	PURPOSE		ALLOWS THE OPEN TO THE TRANSPON ABOVE. THE CON SCANNER INTO A BY THE TRANSPON ING A SPECIFIC	RATOR TO SE NDER DESIGE MMAND NUMBE BINARY WOE NDER'S MICE ACTION.	END TO A NATED IN ER IS TRA RD FOR IN ROPROCESS	SPECIFIC THE ENTRY NSLATED B TERPRETAT OR FOR PE	COMMAND FORMAT Y THE ION RFORM-
			A LISTING OF S	END COMMANI	DS WILL B	E PUBLISH	ED IN
			FUTURE REVISIO	NS TO THIS	OPERATOR	S MANUAL	

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COMMAND RESULTS

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Cientific Atlanta Mo Can=DN CMC=DN Ch	del 2426 MDAS Date: 2/20/84 Time: 10:31 an=P Alarms=0 N.R.Rept=DFF Timer=30 STUs=119
==> ST 2 Address Date Time	Alarms Pending Status
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.

Date: 2/20/84 Time: 10:33 cientific Atlanta Model 2426 MDAS Scan=DN CMC=DN Chan=P Alarms=0 N.R.Rept=DFF Timer=30 STUs=119 ## WARNING ## BAVE DESTROYS CURRENT BACKUP DATABASE. PROCEED? (Y/N) Alarms Fending BIN=OFF LOG=OFF AUTO=DFF Date Time Status Address >> CHECKSUM VERIFIED - DATABASE SAVED << 2/20/84 10:34

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 ALARMSF7 = PRINT SCREEN, F8 = ALARM ACKNOWLEDGE

ALLOWS THE OPERATOR THE ABILITY TO SAVE THE NEW NUMBER OF ENABLED TRANSPONDERS INTO THE CON-TINUOUS 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 RESULTSTHE OPERATOR RECEIVES A WARNING NOTIFICATIONTHAT THE CURRENT DATA BASE WILL BE REPLACED(DESTROYED) BY THE NEW DATA BASE ENTERED. AYES OR NO SELECTION (Y OR N) IS REQUIRED TOSAVE THE NEW DATA BASE

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

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scientifi Scan=DN	c Atlanta CMC=DN	Model 2426 MDAS Chan=F Alarms=0	Date: 2/ N.R.Rept=D	20/84 Time: 10:34 DFF Timer=30 STUs=119			
==> HELP			Panding				
Address	Date Ti	me Status	BI	N=OFF LOG=OFF AUTO=OFF			
		MDAS Comm	and Menu				
ACK ADD DELETE RETURN SCAN SEND STATUS READ SAVE HELP	Acknow STU Ad STU Ad Return STU Sc Send 1 Demand Read S Save D This M	eledge Alarm ddress Enable ddress Disable n to Master Menu canner Fransponder Cmd d STU Status Status Reg Current D-base Menu	RESET RESPONSE CMC DIAL EXAMINE LIST POWER TEST LOAD	Reset Transponder Display ND Responses CMC Communications Dialer Trigger Examine/Modify AER Map List Enabled Addresses Adjust Power Level Toggle Test Bit Load Backup D-base			
		MONITOR MENU	INSTRUCTIONS	· · ·			
COMMAND	ΙΥΡΕ	HELP					
COMMAND	ENTRY	enter HELP (p	ENTER HELP (PRESS RETURN KEY)				
FUNCTION	KEY FORMA	I F5 = BINARY S F7 = PRINT SC	F5 = binary status, F6 = log alarms F7 = print screen, F8 = alarm acknowledge				
COMMAND F	PURPOSE	TO PROVIDE TH MONITOR MENU DESCRIPTIONS.	TO PROVIDE THE OPERATOR WITH A LIST OF ALL MONITOR MENU COMMANDS AND CORRESPONDING DESCRIPTIONS.				
COMMAND F	RESULTS	THE OPERATOR ALL MONITOR M ALARMS PENDIN THIS SPACE, T THESE ALARMS	OBTAINS A CRT ENU COMMANDS I G HEADING. IF HE OPERATOR ML TO ALLOW ROOM	DISPLAY LISTING OF DIRECTLY BELOW THE ALARM REPORTS OCCUPY UST FIRST ACKNOWLEDGE FOR THE HELP MENU.			

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Scientific Atlanta Mode Scan=DN CMC=DFF Char	P Alarms=0 N.R.Rept=DFF Timer=10 STUs=117
==> RESET 14	Aleres Pending
Address Date Time	Status 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 MICROPORCESSOR 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.

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Scan=DN	ic Atlan CMC=DN	ta Mod Cha	del 2426 MI An=P Alara)A5 15=0 1	Date: N.R.Rept	2/20/84 =DFF 1	Time: Timer=30	10:37 STUs=119
==> RESPON	NSE			- Dandi		÷		
Address	Date	Time	Status			BIN=DFF	LOG=DFF	AUTD=DFF
		2	MONITOR	MENU_INST	RUCTIONS	2		
COMMAND	TYPE		RESPONSE					
COMMAND	ENTRY		. enter RE	SPONSE (p	RESS RET	URN KEY)	
FUNCTIO	N KEY FO	RMAT	F5 = BIN F7 = PRI	F5 = binary status, F6 = log alarms F7 = print screen, F8 = alarm acknowledge				
COMMAND	PURPOSE	•	ALLOWS T REPORT F NO RESPO IS UNABL TRANSPON REPORT=0 ALL NO R OPERATOR HELD IN SETTING	HE OPERAT ROM OFF T NSE REPOR E TO COMM DER. WHE FF USING ESPONSE A . NO RES THE SCANN THE NO RE	OR TO TO O ON AND T INDICATE N SETTIN THE COMM LARMS AE PONSE AL ER QUEUE SPONSE F	OGGLE TH VICE V ATES THA WITH A IG THE N AND ENT RE NOT R ARMS AR AND MA REPORT =	E NO RESP ERSA. AN T THE SCA SUBSCRIBE O RESPONS RY SEQUEN EPORTED T E HOWEVER Y BE REPO ON.	ONSE ACTIVE NNER R-BASED E CE ABOVE, O THE , RTED BY
<u>COMMAND</u>	RESULTS		AFTER EN WILL NOT EITHER Û WILL REC CRT DISP	TERING TH E THE NO N OR OFF. EIVE A LI LAY AND L	E RESPON RESPONSE WHEN T STING OF INE PRIM	ISE COMM REPORT OGGLING NO RES	and, the heading ON, the ponse ala	OPERATOR TOGGLE OPERATOR RMS AT THE
0			DEACTIVA A STATEM TIME OF	TION OF T ENT OF TH DEACTIVAT	HE NO RE IS ACTIV ION. TH	SPONSE VITY INC VIS MESS	REPORT RE LUDING DA AGE WILL	SULTS IN TE AND ALSO

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Scan=DN CMC=DN I	Model 2426 MDASDate: 2/20/B4Time: 10:32Chan=PAlarms=0N.R.Rept=DFFTimer=30STUs=119
==> READ 2	Alarms Pending Status BINSDEE LOGEDEE AUTOSDEE
2 \$\$ READ \$	RFFWR: 2 RFC: P ALMCHAN: O 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.

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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.

Jcientifi Scan=DN	CMC=DN	ta Moo Chi	del 2426 an=P Al	MDAS	Dat N.R.	e: 2/20 Rept=DF	0/84 F 1	Time: imer=10	10:37 STUs=119
==> RESPON	ISE 10				nndinn		•		
Address	Date	Time	Status	MIATRS P	enoing	BIN	=OFF	LOG=OFF	AUTO=DFF
		:	MONIT	OR MENU I	NSTRUCT	TIONS			
COMMAND	TYPE		TIMED	RESPONSE					
COMMAND	ENTRY		ENTER REPRE	RESPONSE SENTS A S	- NUMBE	ER (PRES DLLOWED	S RET BY A	'URN KEY) Number O	where - to 255
FUNCTION	KEY FO	RMAT	F5 = F7 =	BINARY ST Print Scr	ATUS, REEN,	F6 = lo F8 = al	G ALA Arm A	RMS CKNOWLED	GE
COMMAND	PURPOSE	_	WHEN MAY S SECON REPOR EXPIR OCCUR AND T	THE NO RE ET THE NO DS. THIS TING TO B ES FOR EA S, THE AL HE PRINTE	SPONSE RESPON GLOBAL E DELAN CH OCCU ARM IS R	REPORT= ISE TIME TIMER (ED UNTI JRENCE, DISPLAY)	ON TH R FRO CAUSE L THE AFTE ED ON	E OPERATO M O TO 2 S ALL ALA TIME-OU R THE TIME THE CRT	DR 55 ARMS T ME-OUT SCREEN
			THE T For II Not Ri	IMER FEAT NSTANTANE ELATED TO	URE WAS OUS CHA	INCORPO NGES IN	ORATE THE THI	D TO COM CATV CAB	PENSATE Le system E is

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

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== RESPONSE 10

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MONITOR MENU INSTRUCTIONS

COMMAND RESULTS

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AN INITIAL NO RESPONSE ALARM CAUSES THE NO RESPONSE REPORT = ON TO FLASH THE TOTAL NUMBER OF NO RESPONSE ALARMS. IF THE NO REPONSE 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.

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Decigntific Atlanta Mod Scan=DN CMC=DFF Cha	el 2426 MDAS Date: 2/20/84 Time: 10:41 n=P Alarms=0 N.R.Rept=DFF Timer=10 STUs=119				
==> CMC	Alares Panding				
Address Date Time	Status BIN=DFF LOG=DFF AUTD=DFF				
	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.				

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Scientific Atlanta Mode Scan=DN CMC=DFF Chan	1 2426 MDAS Date: 2/20/84 Time: 10:39 =F Alarms=0 N.R.Rept=DFF Timer=10 STUs=119
==> DIAL 3	Alaras Pandina
Address Date Time 1 3 \$\$ READ \$\$	BIN=OFF LOG=OFF BIN=OFF LOG=OFF AUTO=OFF 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.

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Scientific Atlanta Mo Scan=DN CMC=DFF Ch	del 2426 MDAS an=P Alarms=0	Date: 2/20/84 N.R.Rept=DFF	Time: 10:39 Timer=10 STUs=119
==> EX 24			
Address Date Tipp	Alarms Pe Status	ending BIN=DFF	LOG=DFF AUTD=DFF
		,	
		4	
Scientific Atlanta Mo Scan=DN CMC=DFF Ch	del 2426 MDAS an=P Alarms=0	Date: 2/20/84 N.R.Rept=DFF	Time: 10:39 Timer=10 STUs=119
24 OFF			
	Alarms Pe	ending	
Address Date Time	Status	BIN=OFF	LOG=OFF AUTO=OFF
	MONITOR MENU I	NSTRUCTIONS	
		-	
OMMAND TYPE	EXAMINE ADDRES	S	
COMMAND ENTRY	ENTED EY_ ADDD	ESS (PRESS DETURN	KEN) MUEDE -
COMMAND ENTRY	DEDDECENTS A S	BACE ENLIQUED BY	
	ADDRESS.	FACE FOLLOWED BI P	TRANSFONDER
	ADDILLOUT	:	
FUNCTION KEY FORMAT	F1 = ADDRESS O	N/OFF, $F2 = NEXT$ A	DDRESS,
	F3 = PREVIOUS	ADDRESS, $F4 = RETU$	JRN
		-	
COMMAND PURPOSE	same as EXAMIN	E COMMAND BUT IT P	ROVIDES OPERATOR
	WITH AN IMMEDI	ATE REPORT FOR A S	PECIFIC
	TRANSPONDER AD	DRESS. THE ON OR	OFF status
	INDICATES IF T	HAT TRANSPONDER AD	DRESS IS ENABLED
	OR DISABLED IN	THE DATA BASE.	
COMMAND RESULTS		R ADDRESS WILL BE	FOLLOWED BY AN
	UN OR UFF LABE	L. IU INCREMENT O	
	ADDRESSES, PRE	SS FZ UK FJ RESPEC	IIVELY, IU REIUKN
	IU INE MUNITUR	FIENU FRESS 14	

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cienti Scan=DN	ific f Ch	tlanta 1C=DFF	Mode Chai	el 2426 n=P A	MDAS 1 arms=	5 •0	Date: N.R.Re	2/20 pt=DFF	0/84. Ti	Time: imer=10	10:42 STUs=119
==> L1									·		
Address	5 Da	ite 1	ime -	Status	Alara	ns Pen	ding	BIN	DN	LOG=OFF	AUTO=DFF
						:			• •	i	
1 11 101 111 121 131 141 151 161 171 181	2 12 102 112 122 132 142 152 162 172 182	3 13 103 113 123 133 143 153 163 173 183	4 14 104 114 124 134 144 154 164 174 184	5 105 115 125 135 145 145 165 165 175 185	6 16 106 116 126 136 146 156 166 176 186	7 17 107 117 127 137 147 157 167 177 187	8 108 118 128 138 148 158 168 168 178 188	9 109 119 129 139 149 159 169 169 179	10 100 120 130 140 150 160 170 180 190	2	
				MONIT	OR ME	NU INS	TRUCTIO	ONS_			
	D TYP	E		LIST							
COMMAND ENTRY			ENTER	ENTER LI (PRESS RETURN KEY)							
FUNCTION KEY FORMAT			F5 = F7 =	F5 = binary status, F6 = log alarms F7 = print screen, F8 = alarm acknowledge							
COMMAND_PURPOSE			ALLOW COPY ADDRE	ALLOWS OPERATOR THE ABILITY TO OBTAIN A HARD COPY LISTING OF ALL THE ENABLED TRANSPONDER ADDRESSES IN THE DATA BASE.							
				THE A Are s	ALARM	RECEIV OPERAT	ING ANI IVE DUP	D PROCI RING TI	ESSIN HIS L	G FUNCTIO	DNS
COMMAN	DRES	ULTS		SEE A	BOVE	Screen	IMAGE	FOR E	XAMPL	E OF LIS	TING.

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Scan=DN CMC=DFF Char	el 2426 MDAS n=P Alarms=1	Date: 2/20/84 N.R.Rept=DFF	4 Time: Timer=10	10:43 BTUs=119	
==> PO 5		•			
Address Date Time 5 2/20/84 10:43	Alarms Pe Status RF DK	ending BIN=OFf	LOG=OFF	AUTO=DFF	
	MONITOR MENU I	NSTRUCTIONS		LOR ON ?	
COMMAND TYPE	ADJUST RF POWER LEVEL				
COMMAND ENTRY	ENTER PO- 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 R 1. 2. .3.	RFOK RFOK RFLOW RFHIGH	REE RESPONS	SES:	

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.

Scan=DN CMC=DFF	Model 2426 MDAS Chan=F Alarms=0	Date: 2/20/ N.R.Rept=DFF	/84 Time: Timer=10	10:44 STUs=119		
==> TEST 4						
Address Date Tim	Alarms F e Status	'ending BIN=(OFF LOG=OFF	AUTO=OFF		
	MONITOR MENU					
COMMAND TYPE	TEST	TEST				
COMMAND_ENTRY	ENTER TEST- AN REPRESENTS A ADDRESS.	DDRESS (PRESS RE SPACE FOLLOWED B	TURN KEY) WH Y A TRANSPON	ERE - DER		
FUNCTION KEY FORMAT	F5 = binary s F7 = print sc	tatus, F6 = log / reen, F8 = alari	ALARMS M ACKNOWLEDG	E		
<u>COMMAND PURPOS</u> E	ALLOWS THE OP ON A SUBSCRIB UPON THE TRAN TWO SECOND VO OF 5 VDC WILL	ERATOR TO ACTIVA ER-BASED TRANSPO SPONDER'S OUTPUT LTAGE OUTPUT OR V OCCUR USING THE	TE THE TEST NDER. DEPEN CONFIGURATI VOLTAGE WITH TEST COMMAN	OUTPUT DING ON, A DRAWAL D.		
	A CUSTOMER DE CONJUNCTION W EQUIPMENT.	VISED RELAY CIRC ITH THE TEST OUT	UIT MAY BE U PUT TO CONTR	SED IN OL		
COMMAND RESULTS	THE TRANSPOND At its test o	ER OUTPUTS OR WI UTPUT.	THDRAWS A VO	LTAGE		

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Scan=DN CMC=DFF Char	el 2426 MDAS Date: 2/20/84 Time: 10:44 n=F Alarms=0 N.R.Rept=DFF Timer=10 STUs=119				
==> LOAD	Alaras Pendina				
Address Date Time 2/20/84 10:44	Status BIN=DFF LOG=DFF AUTO=DFF >> 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 DEPRATOR 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)				

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Colontific Atlanta Mod	10) 2426 MDAS	Date: 2/20/84 Time: 11:39
SCADEDN CMC=DFF Cha	n=P Alaras=6	N.R.Rept=DFF Timer=30 STUs=119
==>		
	Alaras Pe	INDING BINSOFF LOSEDFF AUTOSOFF
Address Date Time	BATTERY I OW	
2 2/20/84 11137	MEDICAL /BATTERY	LOW
2 2/20/84 11:37	INTRUSION/MEDICA	AL/BATTERY LOW
2 2/20/84 11:37	FIRE/INTRUSION/N	EDICAL/BATTERY LOW
2 2/20/84 11:39	PANIC/FIRE/INTRU	JSION/MEDICAL/BATTERY LOW
2 2/20/84 11:39	PANIC/FIRE/INTRU	JSION/MEDICAL/BATTERY LUW/AUX WI
		,
		1 I
Scientific Atlanta Mod	del 2426 MDAS	Date: 2/20/84 Time: 11:42
Scan=DN CMC=DFF Cha	an=P Alarms=6	N.R.Rept=DFF Timer=30 STUs=119
>		
/	Alarms Pe	endi na
Address Date Time	Status	BIN=ON LOG=OFF AUTO=OFF
2 2/20/84 11:41	0000001000000000) · · · ·
2 2/20/84 11:41	000001100000000)
2 2/20/84 11:42	0000111000000000	
2 2/20/84 11:42	001011100000000	
2 2/20/84 11:42	011011100000000	
2 2/20/64 11142		
	•••••••••••••••••••••••••••••••••••••••	· · · · · · · · · · · · ·
	MASTER MENU IN	STRUCTIONS
	DINAD	V alterna
COMMAND TYPE	ACTIVATE DINAN	A STATUS
COMMAND ENTRY	PRESS E5	•
·· · · · · · ·	FF .	· · ·
FUNCTION KEY FORMAT	F5 = BINARY ST	ATUS
COMMAND PURPOSE	ALLOWS OPERATO	R TO RECEIVE THE BINARY FOULVALENT
	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
	BATTERY LOW	
	MEDICAL	0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
	INTRUSION	00001000000000000
	DANIC	01000000000000000
	PANIC	
	TAMPER	
	NO PESPONSE	1 0 0 0 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.