



AES•FireTap™ 7768

DataTap Installation & Operation Manual

7768-EST2	(Edwards Technology EST2)
7768-EQS	(Edwards QuickStart Series)
7768-FCI	(FCI FC-7200)
7768-NOT200	(Notifier AFP-200)
7768-NOT400	(Notifier AFP-400/AFP-300)
7768-NOT2020	(Notifier AM2020/AFP1010)
7768-NOT 640	(Notifier NFS-640)
7768-MXL	(Siemens MXL/MXLV)
7768-GWL	(Gamewell IF600 Series)
7768-FRL9200	(FIRE-LITE MS-9200)
7768-SIL5820	(Silent Knight 5820XL)

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1. FUNCTION

The AES Model 7768 FireTap™ (also referred to as DataTap™) can monitor any serial data source. Typically, it retrieves Point ID data from a Fire Alarm Control Panel (FACP) and forwards this data to the central station via an active network radio system. When an event occurs, the FACP outputs data to the DataTap, which analyzes this data using special personality software. Next, the DataTap formats the data appropriately and passes it to the Radio Subscriber Unit in which it is mounted.

The DataTap interfaces via RS232 to the FACP using its printer port. When an FACP port is interfaced to the DataTap, that port must be dedicated exclusively to the DataTap interface.

Full Supervision of the FACP link is performed when permitted by the FACP and it is the responsibility of the installer to determine this. The DataTap is compatible with FACP's from many different manufacturers.

2. COMPATIBILITY

2.1. Radio Network Compatibility

2.1.1. Remote

The DataTap is an accessory for the AES models 7750-F4x4, 7750-F8, 7050-E, 7450 and 7440 Radio Subscriber Units with Version ESB/SUB 1.71 or later. UL listing is applicable only for the 7750-F4x4 and 7750-F8.

2.1.2. Central

All *IntelliTap* compatible *AES-IntelliNet* receivers accept DataTap packets and forward the data to an alarm monitoring system for annunciation, display and printout.

2.2. FACP Compatibility

At this writing, the FACP's supported are:

- Edwards Systems Technology EST2
- Edwards QuickStart Series
- Notifier AM2020/AFP1010
- Notifier AFP-200
- Notifier AFP-400/AFP-300
- Notifier NFS-640
- FCI FC-7200
- Gamewell IF600 Series
- SIEMENS MXL/MXLV
- FIRE-LITE MS-9200
- Silent Knight 5820XL

3. PHYSICAL INSTALLATION

3.1. General

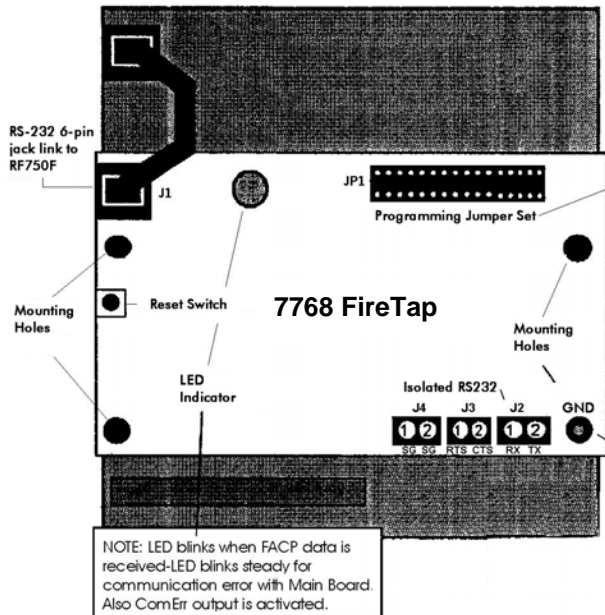


Figure 1- Control Board

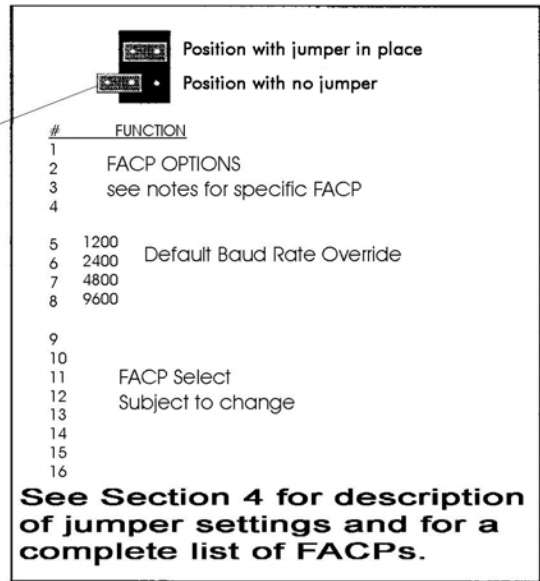


Figure 2- Jumper Settings

The DataTap is installed within the Subscriber Unit as shown above:

1. Remove four (4) lower nuts holding main board inside box. Save these nuts.
2. Install 4 standoffs (provided) in place of nuts. These secure the subscriber unit circuit board and provide a mount for the "TAP". Do not over tighten.
3. Mount DataTap board on standoffs. Secure with 4 nuts removed earlier.
4. Earth ground must be connected to lower right terminal.
5. Install 6-wire modular cord (provided) between DataTap and subscriber main board for power and data.

As seen in Figure 1, the DataTap connects to the Subscriber Unit via an AES supplied cable with a modular jack on each end. Serial (FACP) data enters the DataTap via an optically isolated RS232 port. Connection is made via a cable to be provided by the installer. The FACP and Subscriber Unit must be in the same room using protected wiring such as in conduit.

For interconnection details, see Section 4, which covers each individual FACP and its specific wiring requirements.

3.2. Overview

Power Requirements: The DataTap is powered by 12VDC received from the Subscriber Unit via J1. It adds 90ma of current drain that must be included in the overall standby calculations.

Backup Battery: In all cases, a 12V, 7A-Hr battery provides 24-hour backup for a DataTap/Subscriber Unit combination.

Signaling Service: Supplemental signaling per UL864 is provided; signals received at central from the DataTap must be programmed as lowest in priority (UL864 category "other") at the alarm monitoring system. Note that other signals received due to changes at the Direct Connect inputs of the Subscriber Unit in which the DataTap is located can be programmed as necessary.

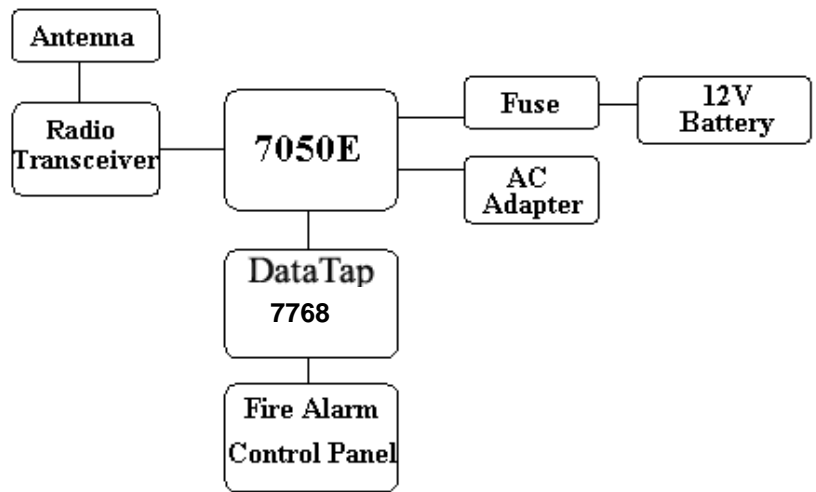
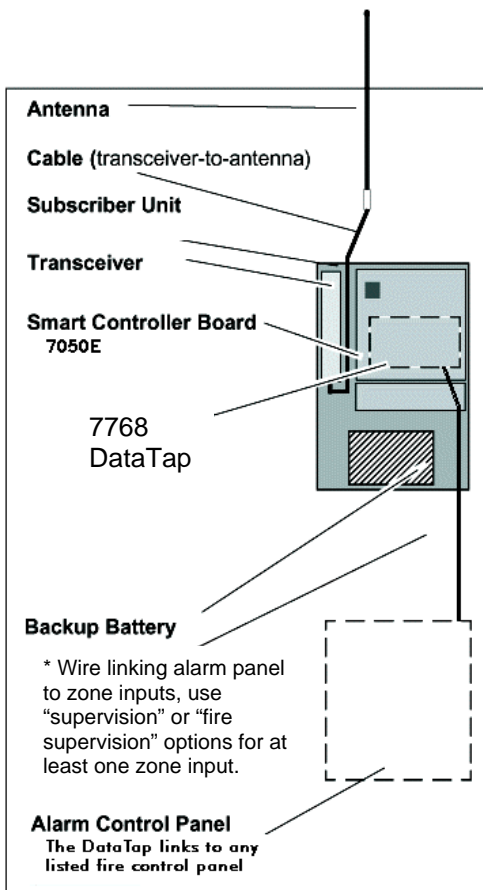


Figure 3- Physical Installation

Figure 4- Block Diagram

For information on the Subscriber Unit installation, see the appropriate manual.

4. CONNECTING THE DATATAP TO THE FACP

4.1. Serial Data Connections

All FACP serial data connections to the DataTap are made via the Isolated RS232 barrier strip (J2-J4 on the board). There are terminals for bi-directional data signals, bi-directional handshake signals and signal ground.

Pin out for connections to J2-J4 are as follows (reference Figure 1).

Isolated RS232 Position	Signal Name	Direction
1 (J4-1)	Signal Ground	N/A
2 (J4-2)	Signal Ground	N/A
3 (J3-1)	RTS	To DataTap
4 (J3-2)	CTS	From DataTap
5 (J2-1)	RxData	To DataTap
6 (J2-2)	TxData	From DataTap

4.2. FACP Selection

Jumper Position	FACP
9	Reserved
10	Reserved
11	Reserved
12	Reserved
13	Reserved
14	Reserved
15	Reserved
16	Reserved

* Note: Currently DataTap's are shipped from the factory with a single FACP interface, which must be selected at time of ordering. Each DataTap will be clearly marked as to the FACP interface installed. Jumpers 9-16 are reserved for future FACP selection for DataTap's with multiple interfaces installed.

4.3. Default Baud Rate Override

When the FACP selection has been made (See Section 4.2), the DataTap automatically sets the baud rate. If this baud rate is satisfactory, no jumper need be added. If it is desired to override this default selection, place a jumper in one of positions 5 through 8 according to the following:

Jumper Position	Baud Rate
5	1200
6	2400
7	4800
8	9600

Note: The DataTap must be reset for this selection to take effect.

4.4. FACP Options

Jumpers 1-4 implement options as discussed in the sections describing operation with each FACP. These involve FACP to DataTap cable supervision and various events. Specifics for these jumpers are covered in the section that is devoted to each FACP. Note that installation of jumper 2 enables cable supervision and its being removed disables that supervision.

Note: Effect of these jumpers is immediate; no reset is required.

4.5. Contact-ID Explained

Contact-ID is the digital receiver format used within the active network radio system. DataTap personality software converts the FACP data to Contact-ID format for forwarding to the Radio Subscriber Unit. At the central, the AES Receiver outputs Contact-ID formatted data alarm monitoring system.

Contact-ID is a transmission format enabling transmission of alarm and trouble conditions on a point-by-point basis. Four groups of information are transmitted to the central receiver: a four-digit account number, a three-digit event code, a group number (00 to 99), and a device or zone number (000 to 999). The account number is the Radio Subscriber number. The event codes have industry standard definitions. The group and device numbers are used to transmit the point ID's of the FACP's initiating and control devices. For small-size (1 or 2 SLC loop) panels, and for basic installation of medium or large-size panels, the group number will usually be 00. The details of the point ID to Contact-ID group and device number conversions are given in the following sections describing operation with each FACP.

Radionics Emulation

Radionics 6500 emulation is also an alarm output option for the AES Receiver. Necessary translation will change the original message, which in most cases loses the original event code. Refer to AES IntelliNote ALMCOD9 for translation details.

Use of Radionics Emulation at the AES Receiver is not advised when using DataTap or IntelliTap modules!

4.6. Contact-ID Event Codes

The most commonly used event codes by DataTap are the following:

FACP Signal Type	Contact-ID Event Code	
Fire Alarm	110 Fire Alarm (If the FACP services the type of initiating device, these are also used.) 111 Smoke Alarm 113 Waterflow Alarm 114 Heat Alarm 115 Pull Station 116 Duct Alarm	
Pre-Alarm signals	118 Near Alarm	
Security Alarm signals	130 Burglary	
Unspecified Alarms	140 General Alarm	
Supervisory signals	200 Fire Supervisory	
SLC Loop Fault	371 Protection Loop Open 372 Protection Loop Short	or,
Initiating Device Trouble	380 Sensor Trouble 389 Sensor Test Fail 392 Drift Compensation Error 393 Maintenance Alert	or, or, or,
Panel Power Fault	301 AC Loss 302 Low Battery 310 Ground Fault	or, or,
Output Circuit Fault	320 Sounder/Relay Trouble 321 Bell/Siren #1 Trouble 326 NAC #3 Trouble (Note: the actual Bell or NAC number will be in the device number field.)	or, or,
Unspecified Fault	300 System Trouble	
Initiating Device Disable	570 Zone Bypass 571 Fire Bypass	or,
Output Circuit Disable	520 Sounder/Relay Disable 521 Bell/Siren #1 Disable 526 NAC #3 Disable (Note: the actual Bell or NAC number will be in the device number field.)	or, or,
Fire Drill Panel Walk-Test	601 Manually Triggered Test 607 Walk Test Mode	and,
Panel Reset	305 System Reset	

4.7. EDWARDS SYSTEMS TECHNOLOGIES EST2

Connections are made to the RS232 section of TB6 on the 2-MCM Main Controller Module.

Connect DataTap Pin To		2-MCM RS232 Pin
RxData	5	TXD
Signal Ground	1-2	COM

In this configuration, the DataTap cannot supervise the cable connection. Remove option jumper 2 to disable cable supervision at the DataTap. Option jumpers 1, 3, & 4 are not used.

Cable supervision can be achieved with the addition of an Edwards IOP-3 module. Follow the instructions in the EST2 system manuals to install the IOP-3. Either RS232 output of the IOP-3 module may be used. Wire to TB2 when using RS232-1 OUT. Wire to TB3 when using RS232-2 OUT. Make sure to install jumper JP2 for TB2, or JP3 for TB3, to enable the SUPV pin of the IOP-3.

Connect DataTap Pin To		IOP-3 TB2/3 Pin	
RxData	5	TXD	3
Signal Ground	1-2	COM	2
RTS	3	SUPV	1

Default Baud Rate is 9600.

EST2 Point ID's are converted to Contact ID group and device numbers as follows:

CATEGORY	FACP POINT	DEVICE#	GROUP#
2-MCM Detectors	0101 to 0196	101 to 196	00
2-MCM NAC	0201 to 0202	201 to 202	00
2-MCM Modules	0203 to 0296	203 to 296	00
2-LCX-MCM Detectors	0301 to 0396	301 to 396	00
2-LCX-MCM NAC	0401 to 0402	401 to 402	00
2-LCX-MCM Modules	0403 to 0496	403 to 496	00
Faults	0001 to 0029	601 to 629	00
Faults	1097 to 1099	797 to 799	00
Faults	1197 to 1199	797 to 799	00
Faults	etc.		
Faults	6397 to 6399	797 to 799	00

4.8. EDWARDS QUICKSTART

This series includes the QS1, QS4, and QSC panels.

Connections are made to the RS232 section of TB1 on the PS6 power supply card.

Connect DataTap Pin To		TB1	Pin
RxData	5	RS232 TX	17
Signal Ground	1-2	RS232 COM	18
TxData	6	RS232 RX	16

Cable supervision requires the QuickStart panel to periodically transmit an XON character. Option jumper 2 enables DataTap supervision of the cable connection to the QuickStart panel. To disable cable supervision, remove jumper 2. Option jumpers 1, 3, & 4 are not used.

Default Baud Rate is 9600.

The QS4 provides space for up to 12 option cards, which may be a combination of up to four Signature Loop Intelligent Controllers (SLIC) for monitoring analog addressable detectors and modules, or Class A or Class B conventional circuit cards (ZA8-2 or ZB16-4). The QS1 supports only one SLIC, and the QSC supports only conventional circuits.

All monitored points are identified by a Card # and Detector, Module, or Zone #. There are also two NAC's per SLIC with fixed point numbers 270 and 271. DataTap supports all 12 cards by mapping 2 cards to each Contact ID group #, from 00 to 05.

Additionally, up to 15 QuickStart panels can be networked together. DataTap supports up to 9 networked panels by using Contact ID group #'s 20 through 90 for panel #'s 2 through 9. Any panel #'s higher than 9 are reported with Contact ID group # 10, but these should not be used.

QuickStart Point ID's are converted to Contact ID group and device numbers as follows:

CATEGORY	PANEL#	CARD#	FACP POINT	DEVICE#	GROUP#
All Points	01	01	001 to 271	101 to 371	00
	01	02	001 to 271	401 to 671	00
	01	03	001 to 271	101 to 371	01
	01	04	001 to 271	401 to 671	01
	Etc.	Etc.	Etc.	Etc.	Etc.
	01	11	001 to 271	101 to 371	05
	01	12	001 to 271	401 to 671	05
	02	01 to 12	001 to 271	101 to 671	20 to 25
	03	01 to 12	001 to 271	101 to 671	30 to 35
	Etc.	Etc.	Etc.	Etc.	Etc.
	09	01 to 12	001 to 271	101 to 671	90 to 95
	10 - 15	01 to 12	001 to 271	101 to 671	10

4.9. NOTIFIER AM2020/AFP1010

Connections are made to the SIB-232 or SIB-2048 Serial Interface Boards. Connect to SIB terminals 1-4, the PRN interface.

Connect DataTap Pin To		SIB Pin	
Signal Ground	1-2	GND	1
RxData	5	TXD	2
N.C.		GND	3
TxDData	6	RXD	4

Option jumper 2 enables DataTap supervision of the cable connection to the AM2020/AFP1010. To disable cable supervision, remove jumper 2. Option jumpers 1, 3, & 4 are not used.

Default Baud Rate is 1200.

AM2020/AFP1010 Point ID's are converted to Contact ID group and device numbers as follows:

CATEGORY	FACP POINT	DEVICE#	GROUP#
Loop 1 Detectors	L1D01 to L1D99	101 to 199	00
Loop 1 Modules	L1M01 to L1M99	201 to 299	00
Loop 2 Detectors	L2D01 to L2D99	301 to 399	00
Loop 2 Modules	L2M01 to L2M99	401 to 499	00
Annunciators	A01 to A32	501 to 532	00
Software Zones	Z001 to Z240	601 to 840	00
(AM2020 only following)			
Loop 3 Detectors	L3D01 to L3D99	101 to 199	01
Loop 3 Modules	L3M01 to L3M99	201 to 299	01
Loop 4 Detectors	L4D01 to L4D99	301 to 399	01
Loop 4 Modules	L4M01 to L4M99	401 to 499	01
Etc.	Etc.	Etc.	
Loop 9 Detectors	L9D01 to L9D99	101 to 199	04
Loop 9 Modules	L9M01 to L9M99	201 to 299	04
Loop 10 Detectors	L0D01 to L0D99	301 to 399	04
Loop 10 Modules	L0M01 to L0M99	401 to 499	04

4.10. NOTIFIER AFP-200

Connections are made to TB4 of the control panel.

Connect DataTap Pin To		TB4 Pin	
RxData	5	TX	
Signal Ground	1-2	REF	
TxData	6	RX	
N.C.		REF	

Option jumper 2 enables DataTap supervision of the cable connection to the AFP-200. To disable cable supervision, remove jumper 2. Option jumpers 1, 3, & 4 are not used.

Default Baud Rate is 2400.

AFP-200 Point ID's are converted to Contact ID group and device numbers as follows:

CATEGORY	FACP POINT	DEVICE#	GROUP#
Addressable Detectors	D01 to D99	101 to 199	00
Addressable Monitor Modules	M01 to M99	201 to 299	00
Bell Circuits	B01 to B04	301 to 304	00
Unexpected Point ID's	?01 to ?99	401 to 499	00

4.11. NOTIFIER AFP-400/AFP-300

Connections are made to TB2, the EIA-232 PC/TERMINAL connector of the CPU board.

Note: Do not use TB1, the EIA-232 PRINTER connector. This connection is unsupervised.

Connect DataTap Pin To		TB2 Pin	
RxData	5	TX	1
TxData	6	RX	2
Signal Ground	1-2	REF	3

Option jumper 2 enables DataTap supervision of the cable connection to the AFP-400. To disable cable supervision, remove jumper 2. Option jumpers 1, 3, & 4 are not used.

Default Baud Rate is 2400.

AFP-400/AFP-300 Point ID's are converted to Contact ID group and device numbers as follows (Note Loop 2 devices apply to AFP-400 only.):

CATEGORY	FACP POINT	DEVICE#	GROUP#
Loop 1 Detectors	D101 to D199	101 to 199	00
Loop 1 Monitor Modules	M101 to M199	201 to 299	00
Loop 2 Detectors	D201 to D299	301 to 399	00
Loop 2 Monitor Modules	M201 to M299	401 to 499	00
Bell Circuits	B01 to B04	501 to 504	00
Loop 1 Unexpected Point ID's	?101 to ?199	601 to 699	00
Loop 2 Unexpected Point ID's	?201 to ?299	701 to 799	00

4.12. NOTIFIER NFS-640

Connections are made to TB15 of the NFS-640 control panel circuit board. This is the EIA-232 PC Terminal connector.

Connect DataTap Pin To		TB15 Pin	
RxData	5	TX	1
TxData	6	RX	2
Signal Ground	1-2	REF	3

Option jumper 2 enables DataTap supervision of the cable connection to the NFS-640. To disable cable supervision, remove jumper 2. Option jumpers 1, 3, & 4 are not used.

Default Baud Rate is 9600.

NFS-640 Point ID's are converted to Contact ID group and device numbers as follows:

CATEGORY	FACP POINT	DEVICE#	GROUP#
Loop 1 Detectors	1D001 to 1D099	101 to 199	00
Loop 1 Modules	1M001 to 1M099	201 to 299	00
Loop 1 Detectors	1D100 to 1D159	300 to 359	00
Loop 1 Modules	1M100 to 1M159	400 to 459	00
Bell Circuits	B01 to B04	501 to 504	00
Panel Circuits	P11 to P18	611 to 618	00
Panel Circuits	P21 to P28	621 to 628	00
Panel Circuits	P31 to P38	631 to 638	00
Panel Circuits	P41 to P48	641 to 648	00
Panel Circuits	P51 to P58	651 to 658	00
Panel Circuits	P61 to P68	661 to 668	00
Panel Circuits	P71 to P78	671 to 678	00
Panel Circuits	P81 to P88	681 to 688	00
Unexpected Loop 1 Point ID's	1?001 to 1?159	701 to 859	00
Loop 2 Detectors	2D001 to 2D099	101 to 199	01
Loop 2 Modules	2M001 to 2M099	201 to 299	01
Loop 2 Detectors	2D100 to 2D159	300 to 359	01
Loop 2 Modules	2M100 to 2M159	400 to 459	01
Unexpected Loop 2 Point ID's	2?001 to 2?159	701 to 859	01

4.13. FCI FC-7200

Connections are made to the FCI FC-7200 System Control Unit (SCU) RS232 Output connector J1. Two styles of connector may be found on the SCU. They are the DB9 connector or RJ11 connector. Connection to the SCU RS232 Supervision pin (SUPV) permits the FC-7200 to supervise the cable connection and is optional. The DataTap will use the DTR output to supervise the cable connection if option jumper 2 is installed.

DB9 Connector			
Connect DataTap	Pin To	DB9 Pin	
RxData	5	TXD	3
RTS	3	DTR	4
Signal Ground	1-2	GND	5
CTS	4	SUPV	9 (optional)

To supervise the cable connection at the DataTap, install Option jumper 2. Remove jumper 2 to disable cable supervision at the DataTap. Option jumpers 1, 3, & 4 are not used.

RJ11 Connector			
Connect DataTap	Pin To	RJ11 Pin	
RxData	5	TXD	5
Signal Ground	1-2	GND	3,4
CTS	4	SUPV	6 (optional)

As there is no DTR signal available in the FC-7200 RJ11 connector, the DataTap cannot supervise the cable connection. Remove Option jumper 2. Option jumpers 1, 3, & 4 are not used.

Default Baud Rate is 1200.

FC-7200 Point ID's are converted to Contact ID group and device numbers as follows:

CATEGORY	FACP POINT	DEVICE#	GROUP#
ALU1 Loop 1 Sensors	L1S01 to L1S99	101 to 199	00
ALU1 Loop 1 Modules	L1M01 to L1M99	201 to 299	00
ALU1 Loop 2 Sensors	L2S01 to L2S99	301 to 399	00
ALU1 Loop 2 Modules	L2M01 to L2M99	401 to 499	00
QZU1 Zones	Zone 1 to Zone 4	501 to 504	00
EZU1 Zones	Zone 1 to Zone 8	601 to 608	00
QRU1 Relays	Rly 1 to Rly 4	701 to 704	00
HRU1 Relays	Rly 1 to Rly 4	711 to 714	00
ALU2 Loop 1 Sensors	L1S01 to L1S99	101 to 199	01
ALU2 Loop 1 Modules	L1M01 to L1M99	201 to 299	01
ALU2 Loop 2 Sensors	L2S01 to L2S99	301 to 399	01
ALU2 Loop 2 Modules	L2M01 to L2M99	401 to 499	01
QZU2 Zones	Zone 1 to Zone 4	501 to 504	01
EZU2 Zones	Zone 1 to Zone 8	601 to 608	01
QRU2 Relays	Rly 1 to Rly 4	701 to 704	01
HRU2 Relays	Rly 1 to Rly 4	711 to 714	01
Etc.	Etc.	Etc.	
ALUF Loop 1 Sensors	L1S01 to L1S99	101 to 199	14
ALUF Loop 1 Modules	L1M01 to L1M99	201 to 299	14
ALUF Loop 2 Sensors	L2S01 to L2S99	301 to 399	14
ALUF Loop 2 Modules	L2M01 to L2M99	401 to 499	14
QZUF Zones	Zone 1 to Zone 4	501 to 504	14
EZUF Zones	Zone 1 to Zone 8	601 to 608	14
QRUF Relays	Rly 1 to Rly 4	701 to 704	14
HRUF Relays	Rly 1 to Rly 4	711 to 714	14

4.14. GAMEWELL IF600 SERIES

This series includes the IF610, IF632, IF654, and the IF658.

Program the FACP for Remote Annunciation. This allows supervision via COM 2 (J2) on the 30952 board in the FACP. Connect as follows:

Connect DataTap	Pin To	J2 on 30952
RxDData	5	XMT
Signal Ground	1-2	COM
TxDData	6	RCV

Option jumper 2 enables DataTap supervision of the cable connection to the IF600. To disable cable supervision, remove jumper 2. Option jumpers 1, 3, & 4 are not used.

Default Baud Rate is 2400.

IF600 Point ID's are converted to Contact ID group and device numbers as follows:

CATEGORY	FACP POINT	DEVICE#	GROUP#
Circuit 1 Devices	001-001 to 001-126	101 to 226	00
Circuit 2 Devices	002-001 to 002-126	301 to 426	00
Circuit 3 Devices	003-001 to 003-126	101 to 226	01
Circuit 4 Devices	004-001 to 004-126	301 to 426	01
Etc.	Etc.	Etc.	
Circuit 129 Devices	129-001 to 129-126	101 to 226	64
Circuit 130 Devices	130-001 to 130-126	301 to 426	64
Circuit 131 Devices	131-01 131-126	101 to 226	65

4.15. SIEMENS MXL/MXLV

Connections are made to TB1 of the PIM-1 module.

Connect DataTap Pin To		PIM-1 TB1 Pin	
RxData	5	Transmit	5
Signal Ground	1-2	Common	2
CTS	4	Unnamed	8
RTS	3	Unnamed	9

The RTS and CTS connections are used to supervise the cable connection to the control panel and are optional. Also, to supervise the cable connection at the DataTap, install Option jumper 2. Remove jumper 2 to disable cable supervision at the DataTap. Option jumpers 1, 3, & 4 are not used.

IMPORTANT:

printer option	generic 132 column
baud rate	1200 baud
data/parity	8 data bits/no parity
stop bits	1 stop bit

In order for the PIM-1 to communicate properly with the DataTap, its communication parameters must be configured to match the DataTap using the AccuLINK (CSG-M) Custom Software Generator available from Siemens (Cerberus Pyrotronics). Program these parameters.

Default Baud Rate is 1200.

MXL Point ID's are converted to Contact ID group and device numbers as follows:

Note that the fixed MMB-1 and MKB-1 addresses, and module addresses up to and including 200 can be converted. Module addresses above 200 cannot be converted. DataTap will use device 999 and group 99 to report all such points encountered.

CATEGORY	FACP POINT	DEVICE#	GROUP#
MMB-1 SLC #1 Devices	001-001 to 001-060	101 to 160	00
MMB-1 SLC #2 Devices	002-002 to 002-060	201 to 260	00
MMB-1 Alarm Relay	253-001	301	00
MMB-1 Trouble Relay	253-002	302	00
MMB-1 User Relay	253-003	303	00
MMB-1 NAC #1	253-004	304	00
MMB-1 NAC #2	253-005	305	00
MKB-1	251-000 to 251-248	400 to 648	00
Module Addresses	003-001 to 003-248	101 to 348	01
Module Addresses	004-001 to 004-248	401 to 648	01
Module Addresses	005-001 to 005-248	101 to 348	02
Module Addresses	006-001 to 006-248	401 to 648	02
Etc.	Etc.	Etc.	
Module Addresses	199-001 to 199-248	101 to 348	99
Module Addresses	200-001 to 200-248	401 to 648	99
Module Addresses	201-001 to 247-248	999	99

4.16. FIRE-LITE MS-9200

The MS-9200 must be equipped with the PIM-24 Printer/PC Interface Module. Use the default Printer Settings/Communications Setup of 2400,7,E, 1.

Connections are made to TB1 of the PIM-24 Module.

Connect DataTap Pin To		PIM-24 TB1 Pin
RxData	5	TX
TxData	6	RCV
Signal Ground	1-2	GND

Option jumper 2 enables DataTap supervision of the cable connection to the MS-9200. To disable cable supervision, remove jumper 2. Option jumpers 1, 3, & 4 are not used.

Default Baud Rate is 2400.

MS-9200 Point ID's are converted to Contact ID group and device numbers as follows:

CATEGORY	FACP POINT	DEVICE#	GROUP#
Addressable Sensors	S01 to S99		
or Ionization	I01 to I99		
or Photoelectric	P01 to P99	101 to 199	00
Addressable Monitor Modules	M01 to M99		
or Control Modules	C01 to C99	201 to 299	00
Bell Circuits	B01 to B02	301 to 302	00
Unexpected Point ID's	?01 to ?99	401 to 499	00

4.17. SILENT KNIGHT 5820XL

This personality firmware communicates with the 5820XL panel via Silent Knight's Gateway command set protocol. It has been tested with Gateway protocol Version "2.00" Revision E, dated July 11, 2000. The DataTap deals with the 5820XL at the individual point level, rather than at the zone/group level. All Point ID's consist of module#-point#, e.g. 33-127. The DataTap supports monitoring alarms or troubles from all 508 of the 5820XL SLC input points, and troubles from all 448 of the 5820XL output points on its various Aux Power, LED driver, and annunciator expansion modules.

Connections are made to the serial port of the 5824 serial/parallel Interface module, which uses a 9-pin D type connector. Cable supervision is performed in software via the Gateway protocol.

IMPORTANT: The CTS-CTS connection is required. The 5820XL will not transmit to the DataTap unless the 5824 CTS input pin is actively driven.

Connect DataTap Pin To		5824 9-Pin Pin	
RxData	5	Transmit	3
TxData	6	Receive	2
Signal Ground	1-2	Common	5
CTS (Out)	4	CTS (In)	8

Option jumper 2 enables DataTap supervision of the cable connection to the 5820XL. To disable cable supervision, remove jumper 2. Option jumpers 1, 3, & 4 are not used.

IMPORTANT:

Baud Rate	2400
Data Bits	8
Stop Bits	1
Parity	None

In order for the 5824 to communicate properly with the DataTap, its communication parameters must be configured to match the DataTap. See the 5820XL Operation manual for instructions on configuring the 5824 module.

Set the printer **Output Port = Parallel**. This frees the serial port for use by the Gateway protocol.

Note: If a parallel printer is not physically connected to the parallel output port, also set **Monitor Printer = No**, to prevent printer error reports at the 5820XL panel.

The DataTap Default Baud Rate is 2400.

5820XL **MODULE#-POINT#** Point ID's are assigned directly to the Contact ID group and device numbers. This conforms to the Contact ID Reporting format used by the 5820XL's integral digital dialer.

CATEGORY	FACP POINT	DEVICE#	GROUP#
All System Events	N/A	000	00
All Point Events	MODULE#-POINT#	POINT#	MODULE#
e.g.	33-127	127	33

5. CONNECT A ZONE ON THE SUBSCRIBER UNIT IN ADDITION TO THE DATATAP!

It is strongly recommended that a least one output of the alarm panel be connected to the AES Subscriber Unit when using the DataTap. The activated zone serves as a general alarm. The alarm monitoring screen should comment that additional information should follow and what action to take if it does not. If the alarm panel has the necessary outputs you can send general alarms for more specific clarification, such as General Fire, Burglary, Panic, etc.

6. TEST PROCEDURES

- Notify the Central Station that a test is in progress.
- Trip the alarm control panel. The DataTap LED indicator will blink as the panel's data message is recognized and accepted.
- Check with the central station that the correct message was received.

7. CENTRAL RECEIVER COMPATIBILITY

7000/2, 7000/1, 7701/Net77, 7703, 7003 and 7099 Receivers will accept DataTap packets. Some earlier versions may require an upgrade.

8. UL Compliance Notes

- The 7768 DataTap unit must be mounted inside an AES 7750-F4x4 or 7750-F8 Subscriber Unit.

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