

Holmes Security Systems

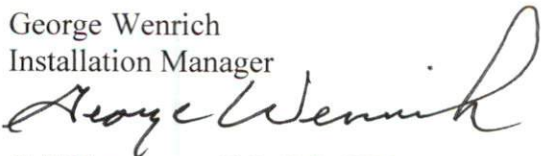
October 5, 2020

Reference Fire Alarm Permit: Sandhills Pediatric & Family Dentistry
55 Amarillo Lane Sanford NC

Holmes Electric Security has been given a contract to add a Fire Radio to the existing Fire panel which is a Fire-Lite MS-9050. The Radio is to replace the telephone lines in the Fire Panel. The radio is a HWF2V-COM Verizon Communicator. I have included the cut sheets for the radio and for the existing Fire panel MS-9050. No plans have been submitted since we are only adding a Fire Radio to the Fire panel and no blue prints are needed.

If more information is required, please contact me.

George Wenrich
Installation Manager


Cell Number: 910-635-6922
Office number: 910-483-1196



George Wenrich
Installation Manager

127 Hay Street • Fayetteville, NC 28301-5692
(910) 483-1196 • (800) 426-9388

Fax (910) 483-3774

www.HolmesElectricSecurity.com

GWenrich@HolmesElectricSecurity.com

NC Lic. #637CSA/#2176CSA/#2443CSA
Elect. Lic. #SP.FA/LV.10174

127 Hay Street
Fayetteville, NC 28301
(910) 483-6922
800-426-9388

109 Hinton Avenue
Wilmington, NC 28403
(910) 793-4181
800-426-9388

www.HolmesElectricSecurity.com

Existing

MS-9050UD(E)

Fire Alarm Control Panel with DACT



Addressable

General

The Fire•Lite MS-9050UD(E) is a Fire Alarm Control Panel (FACP) and Digital Alarm Communicator/Transmitter (DACT) combined into one circuit board. This compact, intelligent addressable control panel supports up to 50 addressable devices of any type of detectors and modules. With an extensive list of powerful features, the MS-9050UD programs just like Fire•Lite's larger products, yet fits into applications previously served only by conventional panels.

The MS-9050UD's integral DACT transmits system status (alarms, troubles, AC loss, etc.) to a Central Station via the public switched telephone network. It also allows remote and local programming of the control panel using the PK-CD Upload/Download utility. In addition, the control panel may be programmed or interrogated off-site via the public switched telephone network. Any personal computer with Windows™ 95 or greater, and compatible modem with a speed of 14.4 kbps or faster and Fire•Lite Upload/Download software kit PK-CD, may serve as a Service Terminal. This allows download of the entire program or upload of the entire program, history file, walk-test data, current status and system voltages.

The power supply and all electronics are contained on a single circuit board supported on a new quick install chassis and housed in a metal cabinet. Available accessories include local and remote upload/download software, remote annunciators, and reverse polarity/city box transmitter. (4XTMF)

New options include a UL listed printer, PRN-6F and the new IPDACT Internet Monitoring module. The FireWatch Series internet monitoring modules IPDACT-2 and IPDACT-2UD permit monitoring of alarm signals over the Internet, saving the monthly cost of two telephone lines. Although not required, the secondary telephone line may be retained providing backup communication over the public switched telephone line.

NOTE: Unless otherwise specified, the term MS-9050UD is used in this data sheet to refer to both the MS-9050UD and the MS-9050UDE FACPs. For MS-9050UDC, refer to DF-60445.

Features

- Listed to UL Standard 864, 9th edition.
- Auto-program (learn mode) reduces installation time. Reports two devices set to the same address.
- On-board DACT.
- Two independently programmable Style Z (Class A) or Style Y (Class B) NAC circuits.
- Selectable strobe synchronization for System Sensor, Wheelock, and Gentex devices.
- Remote Acknowledge, Silence, Reset and Drill via addressable monitor modules.
- Two programmable relays and one fixed trouble relay.
- Built-in Programmer.
- Telephone Line Active LEDs.
- EIA-232 PC interface.
- Integral 80-character LCD display with backlighting.
- Real-time clock/calendar with automatic daylight savings control.
- History file with 500 event capacity.
- Automatic detector sensitivity testing (NFPA 72 compliant).
- Automatic device type-code verification.



- Point trouble identification.
- Waterflow selection per module point.
- Alarm verification selection per detector point.
- Maintenance alert warns when smoke detector dust accumulation is excessive.
- One-person audible or silent walk test with walk-test log and printout.
- System alarm verification selection per detector point.
- PAS (Positive Alarm Sequence) and Pre-signal per point (NFPA 72 compliant).
- Up to eight ANN-BUS annunciators
- Remote Acknowledge, Alarm Silence, Reset and Drill via addressable modules or remote annunciator.
- Upload/Download (local or remote) of program and data via integral DACT.

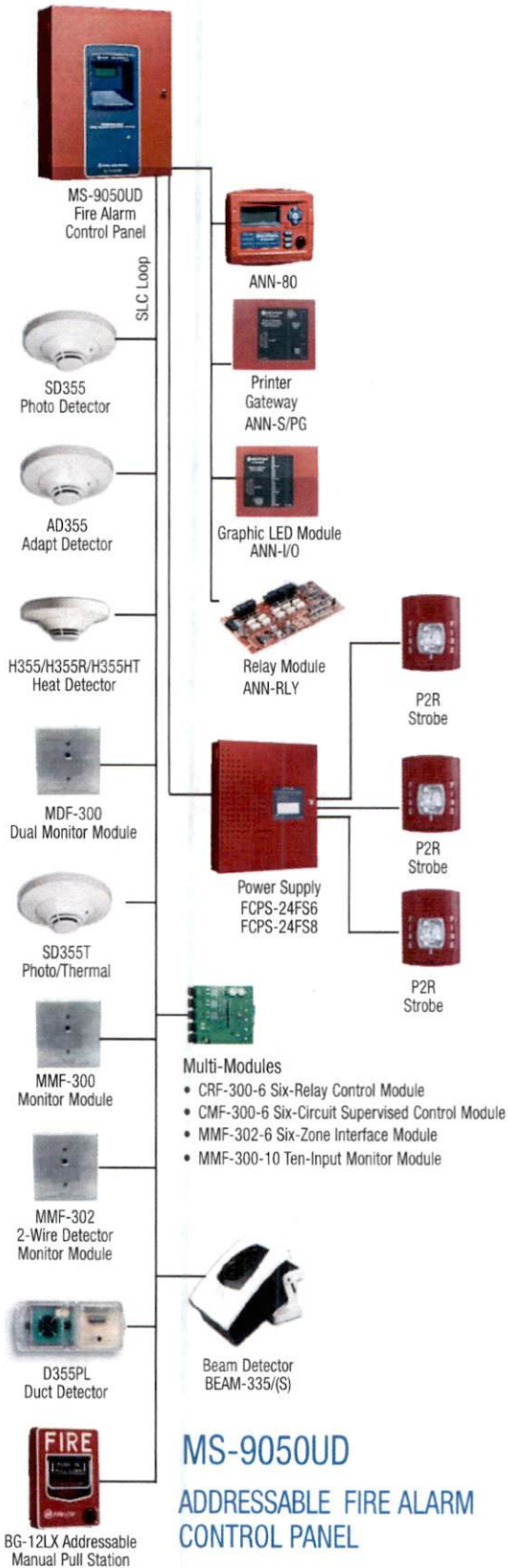
SLC COMMUNICATION LOOP

- Single addressable SLC loop which meets NFPA Style 4, 6 and 7 requirements.
- 50 addressable device capacity (any combination of addressable detectors and modules).
- Compatible with Fire•Lite's addressable devices (refer to *SLC Wiring Manual*).

NOTIFICATION APPLIANCE CIRCUITS (NACS)

- Two independently programmable output circuits. Circuits can be configured for the following outputs:
 - Style Y (Class B)
 - Style Z (Class A)
 - Door Holder Service (cannot be used for notification appliances)
 - Aux Power Source (cannot be used for notification appliances)
- Silence Inhibit and Autosilence timer options.
- Continuous, March Time, Temporal or California code for main circuit board NACs with two-stage capability.
- Selectable strobe synchronization per NAC.
- 2.5 A total power for NACs.

NOTE: Maximum or total 24VDC system power shared between all NAC circuits and the ANN-BUS is 2.7 A.



PROGRAMMING AND SOFTWARE

- Autoprogram (learn mode) reduces installation time.
- Custom English labels (per point) may be manually entered or selected from an internal library file.
- Two programmable Form-C relay outputs.
- 20 software zones.
- Continuous fire protection during online programming at the front panel.
- Program Check automatically catches common errors not linked to any zone or input point.
- **OFFLINE PROGRAMMING:** Create the entire program in your office using a Windows®-based software package (order programming kit PK-CD, containing PS-Tools, separately). Upload/download system programming locally.

User interface

LED INDICATORS

- AC Power (green)
- Fire Alarm (red)
- Supervisory (yellow)
- Trouble (yellow)
- Alarm Silenced signals (yellow)

KEYPAD

- 16 key alpha-numeric pad
- Acknowledge/Step
- Alarm Silenced
- Drill (Manual Evacuate)
- Reset (lamp test)

Product Line Information

MS-9050UD(E): Combination DACT/Fire Alarm Control Panel with one SLC loop. Includes main circuit board with display, chassis with transformer, backbox with door, plastic bag containing screws, cables, key, etc., manual. (For MS-9050UDC, refer to DF-60445.)

PK-CD: Contains PS-Tools programming software for Windows®-based PC computer (cable not included).

DP-51050: Optional dress panel for the MS-9050UD.

TR-CE: Optional trim ring for semi-flush mounting.

BB-2F: Optional cabinet for one or two modules.

BB-6F: Optional cabinet for up to six modules mounted on CHS-6 chassis.

BB-26: Battery backbox, holds up to two 25 AH batteries and CHG-75.

BB-55F: Battery box, houses two 55 AH batteries

CHS-6: Chassis, mounts up to six multi-modules in a BB-6F cabinet.

CHG-75: Battery charger for lead-acid batteries with a rating of 25 to 75 AH.

CHG-120F: Remote battery charging system for lead-acid batteries with a rating of 55 to 120 AH. Requires additional BB-55F for mounting.

BAT Series: Batteries, see data sheet DF-52397.

PRT/PK-CABLE: Cable printer/personal computer interface cable.

PRN-6F: UL listed compatible event printer. Uses tractor-fed paper.

IPDACT, IPDACT-2/2UD Internet Monitoring Module: Mounts in bottom of enclosure with optional mounting kit (PN IPBRKT). Connects to primary and secondary DACT telephone output ports for internet communications over customer provided ether-

net internet connection. Requires compatible Teldat Visoralarm Central Station Receiver. Can use DHCP or static IP. (See data sheet df-52424 for more information.)

IPBRKT: Mounting kit for IPDACT-2/2UD in common enclosure.

IPSPLT: Y-adaptor option allows connection of both panel dialer outputs to one IPDACT-2/2UD cable input.

AC-TRMBLK: AC Terminal Block mounts to a metal bracket, in turn, mounts to the FACP chassis. Use AC-TRMBLK when wire nuts are not allowed for AC connections to the transformer.

OPTIONAL MODULES

4XTMF Reverse Polarity Transmitter Module: Provides a supervised output for local energy municipal box transmitter, alarm and trouble. Includes a disable switch and disable trouble LED.

ANN-SEC: Optional secondary ANN-BUS interface module. Note: Used only with firmware 3.0 or higher.

COMPATIBLE ANNUNCIATORS

ANN-80(-W): Remote LCD annunciator mimics the information displayed on the FACP LCD display. Recommended wire type is un-shielded. (Basic model is red; order -W version for white; see DF-52417.)

ANN-I/O: LED Driver Module provides connections to a user supplied graphic annunciator. (See DF-52430.)

ANN-LED: Annunciator Module provides three LEDs for each zone: Alarm, Trouble, and Supervisory. Ships with red enclosure. (See DF-60241.)

ANN-RLED: Provides alarm (red) indicators for up to 30 input zones or addressable points. (See DF-60241.)

ANN-RLY: Relay Module provides 10 programmable Form-C relays. Can be mounted inside the cabinet. (See DF-52431.)

ANN-S/PG: Serial/Parallel Printer Gateway module provides a connection for a serial or parallel printer. (See DF-52429.)

ADDRESSABLE DEVICES

All feature a polling LED and rotary switches for addressing.

CP355: Addressable low-profile ionization smoke detector.

SD355: Addressable low-profile photoelectric smoke detector.

SD355T: Addressable low-profile photoelectric smoke detector with thermal sensor.

SD355R: Remote test capable addressable photoelectric smoke detector for use with DNR(W) duct detector housing.

H355: Fast-response, low-profile heat detector.

H355R: Fast-response, low-profile heat detector with rate-of-rise option.

H355HT: Fast-response, low-profile heat detector that activates at 190°F/88°C.

AD355: Low-profile, intelligent, "Adapt" multi-sensor detector (B350LP base included).

BEAM355: Intelligent beam smoke detector.

BEAM355S: Intelligent beam smoke detector with integral sensitivity test.

D355PL: InnovairFlex low-flow non-relay duct-detector housing; includes SD355R.

DNR: InnovairFlex low-flow non-relay duct-detector housing. (Order SD355R separately.)

DNRW: InnovairFlex low-flow non-relay duct-detector housing, with NEMA-4 rating. Watertight. (Order SD355R separately.)

MMF-300: Addressable Monitor Module for one zone of normally-open dry-contact initiating devices. Mounts in standard

4.0" (10.16 cm.) box. Includes plastic cover plate and end-of-line resistor. Module may be configured for either a Style B (Class B) or Style D (Class A) IDC.

MDF-300: Dual Monitor Module. Same as MMF-300 except it provides two Style B (Class B) only IDCs.

MMF-301: Miniature version of MMF-300. Excludes LED and Style D option. Connects with wire pigtails. May mount in device backbox.

MMF-302A: Similar to MMF-300A. Addressable Monitor Module for one zone of conventional two-wire detectors. Requires resettable 24 VDC power. Refer to the *Device Compatibility Document* for listed compatible devices and quantity limitation.

CMF-300: Addressable Control Module for one Style Y/Z (Class B/A) zone of supervised polarized Notification Appliances. Mounts directly to a 4.0" (10.16 cm.) electrical box. Notification Appliance Circuit option requires external 24 VDC to power notification appliances.

CRF-300: Addressable relay module containing two isolated sets of Form-C contacts, which operate as a DPDT switch. Mounts directly to a 4.0" (10.16 cm.) box, surface mount using the SMB500.

BG-12LX: Addressable manual pull station with interface module mounted inside.

I300: This module isolates the SLC loop from short circuit conditions (required for Style 6 or 7 operation).

SMB500: Used to mount all modules except the MMF-301 and M301.

MMF-300-10: Ten-input monitor module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F cabinet.

MMF-302-6: Six-zone interface module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F cabinet.

CMF-300-6: Six-circuit supervised control module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F cabinet.

CRF-300-6: Six-relay control module (Form-C relays). Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F cabinet.

NOTE: For more information on Compatible Addressable Devices for use with the MS-9050UD, see the following data sheets (document numbers): AD355 (DF-52386), BG-12LX (DF-52013), CMF-300-6 (DF-52365), CRF-300-6 (DF-52374), CMF/CRF Series (DF-52130), CP355 (DF-52383), H355 Series (DF-52385), I300 (DF-52389), MMF-300 Series/MDF-300 (DF-52121), MMF-300-10 (DF-52347), MMF-302-6 (DF-52356), SD355/SD355T (DF-52384).

ADDRESSABLE DEVICE ACCESSORIES

End-of-Line Resistor Assembly (R-47K and R-3.9K): The 47k ohm assembly supervises the MMF-300, MDF-300, MMF-301, and CMF-300 module circuits. The 3.9k ohm assembly supervises the MMF-302 module circuit. These resistors are included with each module.

Power Supervision Relay: Supervises the power to 4-wire smoke detectors and notification appliances.

Wiring Requirements

While shielded wire is not required, it is recommended that all SLC wiring be twisted-pair to minimize the effects of electrical interference. Refer to the panel manual for wiring details.

SYSTEM SPECIFICATIONS

System Capacity

- Intelligent Signalling Line Circuits..... 1
- Addressable device capacity 50
- Programmable software zones 20
- Annunciators..... 8

Electrical Specifications

AC Power: MS-9050UD 120 VAC, 60 Hz, 3.0 A. MS-9050UDE: 240 VAC, 50 Hz, 1.5 A. Wire size: minimum 14 AWG (2.00 mm2) with 600 V insulation. Nonpower-limited, supervised.

Battery: Two 12 V 18 AH lead-acid batteries. Battery Charger Capacity: 7-18 AH (MS-9050UD cabinet holds maximum of two 18 AH batteries.)

Communication Loop: Supervised and power-limited.

Notification Appliance Circuits: Terminal Block provides connections for two NACs, Style Y (Class B) or Style Z (Class A). Special Application power. Power-limited, supervised circuitry. Maximum signaling current per circuit: 2.5 A. End-of-Line Resistor: 4.7k ohm, ½ watt (P/N 71252 UL listed) for Style Y (Class B) NAC. Refer to the *Fire•Lite Device Compatibility Document* for listed compatible devices.

Two Programmable Relays and One Fixed Trouble Relay: Contact rating: 2.0 A @ 30 VDC (resistive), 0.5 A @ 30 VAC (resistive). Form-C relays, nonpower-limited, nonsupervised.

Cabinet Specifications

Door: 19.26" (48.92 cm.) high x 16.82" (42.73 cm.) wide x 0.72" (1.82 cm.) deep. **Backbox:** 19.00" (48.26 cm.) high x 16.65" (42.29 cm.) wide x 5.25" (13.34 cm.) deep. **Trim Ring (TR-CE):** 22.00" (55.88 cm.) high x 19.65" (49.91 cm.) wide.

Shipping Specifications

Weight: 26.9 lbs. (12.20 kg.) **Dimensions:** 20.00" (50.80 cm.) high x 22.5" (57.15 cm.) wide x 8.5" (21.59 cm.) deep.

Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (non-

condensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

NFPA Standards

The MS-9050UD(E) complies with the following NFPA 72 Fire Alarm Systems requirements:

- **LOCAL** (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- **AUXILIARY** (Automatic, Manual and Waterflow) (requires 4XTMF).
- **REMOTE STATION** (Automatic, Manual and Waterflow) (Where a DACT is not accepted, the alarm, trouble and supervisory relays may be connected to UL 864 listed transmitters. For reverse polarity signaling of alarm and trouble, 4XTMF is required.)
- **PROPRIETARY** (Automatic, Manual and Waterflow).
- **CENTRAL STATION** (Automatic, Manual and Waterflow, and Sprinkler Supervised).
- **OT, PSDN** (Other Technologies, Packet-switched Data Network)

Agency Listings and Approvals

The listings and approvals below apply to the basic MS-9050UD(E) control panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S624
- **FM approved**
- **CSFM:** 7165-0075:210
- **MEA:** 442-06-E

NOTE: See DF-60445 for ULC-listed model.

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.



For more information, contact Fire•Lite Alarms. Phone: (800) 627-3473, FAX: (877) 699-4105. www.firelite.com

Adding

HWF2-COM SERIES

LTE / IP Single or Dual Path Commercial Fire Communicators

The HWF2-COM Series LTE / IP fire communicators are single or dual path commercial fire alarm communicators that offer Contact ID reporting with any FACP (fire alarm control panel) with a built-in dialer.

Models include:

HWF2A-COM (AT&T LTE & IP)

HWF2V-COM (Verizon LTE & IP)

Both models connect directly to the primary or secondary communication ports of a fire panel's digital alarm communicator transmitter (DACT).

Three selectable reporting paths include: LTE cellular only, IP only, or IP primary with LTE cellular backup. All signals from the HWF2-COM Series are delivered to the AlarmNet® network control center which routes highly encrypted, cybersecured Ethernet data packets via a customer-provided Internet connection or LTE cellular network to the appropriate central station. The AlarmNet® network control center is fully redundant and monitored 24/7. Installation and programming are easy using the handheld 7720P Programming tool.



FEATURES AND BENEFITS

- LTE and IP connection tested every day
- Three selectable reporting paths: LTE cellular only, IP only, or IP Primary with LTE cellular backup
- Requires no change to the existing FACP configuration
- Connects directly to the primary and secondary telephone ports of a DACT
- Plan choices range from 5 minute, 60 minute, 6 hour, and 24 hour supervision intervals
- Operates over the following communication protocols: LTE, HSPA+(4G) HSPA (3G)
- Works over any type of customer provided Ethernet 10/100 based network connection (LAN or WAN), DSL model or cable modem
- Data transmits over standard Contact ID protocol but is secured with the industry's advanced encryption standard (AES 256 bit)
- Supports both dynamic (DHCP) or public and private Static IP addressing
- Reliable connection: IP and cellular connection tested every day
- Built-in, standalone power supply module. Onboard charging circuit design accommodates battery backup. Includes primary power and battery supervision
- Diagnostic LEDs indicate signal strength and status
- Choice of LTE provider services
- QOS: Quality of Service diagnostics via AlarmNet conveys vital communicator information including signal strength, message path used, and when the message was received
- 7720P Handheld programmer for easy setup

Honeywell

The HWF2-COM LTE / IP fire communicators operate over the most modern and common cellular networks including LTE, 4G and 3G.

They connect to any customer provided Ethernet 10/100 base network connection (LAN or WAN), DSL or cable modem. Selectable reporting path feature allows the radios to be configured for a single or dual path, while providing appropriate supervision intervals based on NFPA 72 requirements. Selectable paths and supervision timing intervals include:

SELECTABLE PATH	DESCRIPTION	SUPERVISION TIMES
2010 Cell	Single path, cellular	5 Minutes
2010 IP	Single path, IP	5 Minutes
2010 IP & Cell	Dual path, IP and cellular	24 Hours
2013 Cell	Single path, cellular	60 Minutes
2013 IP	Single path, IP	60 Minutes
2013 IP & Cell	Dual path, IP and cellular	6 Hours

OPERATION

When an event occurs, the FACP goes off-hook to dial the central station. The HWF2-COM Series dialer capture module detects the off-hook condition and provides the fire panel with a dial tone. When the fire panel detects the dial tone, it begins dialing the central station.

After the dialing is completed, the dialer capture module returns a signal to the fire panel. The fire panel then sends the Contact ID reports to the dialer capture module, which in turn sends a signal after the report is successfully received from the fire panel. The dialer capture module sends the Contact ID reports to the HWF2-COM Series communications module. When all the reports are sent, the fire panel goes on-hook. The HWF2-COM Series communications module then transmits the messages to the central station either over the LTE network or the Internet (depending on configuration).

FIRE COMMUNICATOR / PANEL CAPABILITY

The HWF2-COM Series is compatible with fire alarm control panels that use the Contact ID communications format as described in the SIA DC-05 standard.

EASY TO PROGRAM

The HWF2-COM communicator can be pre-programmed using the 7720P programmer to enter all central station information. This is saved to the HWF2-COM communicator panel memory. When the HWF2-COM is installed at the site and connected to the Internet/ Intranet, it registers with the AlarmNet Receiver.

For most installations, the only required parameters are:

- Primary City ID (two digits), obtained from your monitoring station
- Primary Central Station ID (two digits), obtained from your monitoring station

- Primary Subscriber ID (four digits), obtained from your monitoring station
 - Communication Module MAC ID, and MAC CRC number located on the outside of the box and inside of the module
- All parameters are assigned by the monitoring station.

ALARMNET

AlarmNet communications technology provides a highly reliable alternative for the transmission of alarm signals. The network provides extensive coverage in the United States and Canada. The AlarmNet Network Control Center processes signals from powerful servers in multiple locations equipped with 24/7 infrastructure support. Redundant hardware servers, real-time backup databases, and generators with battery backup at all locations ensure continuity of service. Signals from AlarmNet are transmitted to central station receivers using multiple communication paths consisting of the Internet, LTE radio network, or toll free plain old telephone service (POTS). Visit AlarmNet.com to learn more.

INSTALLATION REQUIREMENTS, UL COMPLIANCE

To meet UL864/NFPA requirements, ensure the following:

- HWF2-COM Series must be installed in accordance with the National Fire Protection Association (NFPA) standards 70 and 72
- HWF2-COM Series must be mounted in the same room and within 20 feet of the fire panel.
- HWF2-COM Series and all equipment used for the IP connection (e.g., router, hub, modem, etc) must be UL-listed, powered from an unswitched branch circuit, and be provided with appropriate standby power.
- HWF2-COM Series must use the 7AH battery (not included) to provide 24 hour backup capability

HWF2-COM SERIES TECHNICAL SPECIFICATIONS

ELECTRICAL

Transformer:

- Primary: 120VAC, 60Hz, 0.5A
- Secondary: 18VDC, 50VA

Battery:

- One 12 V 7.0 AH lead-acid battery: (not supplied)
- Battery charging current: 1 Amp maximum
- Battery discharge current: Standby 230mA, Active 950mA

CABINET SPECIFICATIONS

- Dimensions: 14.875" H x 12.75" W x 3.0" D (37.8cm H x 32.4cm W x 7.6cm D)
- Color: Red

SHIPPING DIMENSIONS

- Weight: 5.3 lbs (6.94kg)
- Dimensions: 15.625" H x 13.79" W x 9.25" D (39.7cm H x 34.9cm W x 23.9cm D)

TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 - 49°C/32-120°F and at a relative humidity 93%+- 2% RH (non-condensing at 32°C +- 2°C(90°F +-3°F). However the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 - 27°C/60-80°F.

PRODUCT LINE INFORMATION

HWF2V-COM: LTE Digital Cellular Fire Alarm Communicator and Internet Panel, Verizon LTE / IP

HWF2A-COM: LTE Digital Cellular Fire Alarm Communicator and Internet Panel, AT&T LTE / IP

Both models include:

- Red cabinet with key and lock
- Wall outlet box
- Dialer capture module
- LTE communications module
- Antenna and mounting adapter
- PowerBoost1 power supply
- LED display board
- Transformer
- Manual and required screws
- Cables, etc.

ANTENNA AND EXTERNAL HARDWARE

CELL-ANT3DB: 3dBA gain antenna
WA7626-CA: SMA to N adapter cable
7626-50HC: 50 ft. antenna cable, low loss

Note: The WA7626-CA adapter cable and 7626-50HC antenna cable are only required when installing the CELL-ANT3DB antenna remotely.

OTHER ACCESSORIES

7720P: HWF2V-COM, HWF2A-COM and IPGSM-4G handheld programmer

HPTCOVER: Plug-in transformer box for HWF2V-COM, HWF2A-COM, and IPGSM-4G communicators

BAT-1270: Battery 12 Volts, 7AH, sealed

AGENCY LISTINGS AND APPROVALS

The listings and approvals below apply to the HWF2-COM Series communicators. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult the factory for latest listings.

UL Listed: S789

CSFM: 7300-1645:0511

FDNY: Approved

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Country of origin: USA

Honeywell Power Products

12 Clintonville Road
Northford, CT 06472-1610
203.484.7161
www.honeywellpower.com

DH-62010 | B | 06/19
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THE
FUTURE
IS
WHAT
WE
MAKE IT

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